

PRP CASES FOR THE LOWER PASSAIC RIVER STUDY AREA

PRP DATA EXTRACTION FORMS AND EVIDENCE CONCERNING:

BELLEVILLE INDUSTRIAL CENTER

PREPARED FOR:

LOWER PASSAIC RIVER STUDY AREA COOPERATING PARTIES GROUP

SUBMITTED TO: USEPA REGION II

DECEMBER 27, 2005

PRP CASES FOR THE LOWER PASSAIC RIVER STUDY AREA

BELLEVILLE INDUSTRIAL CENTER INDEX OF EVIDENCE

Tab No.	Year	Day and Month	Description
1	2003	18-Dec	Site Investigation Report -former Helion Industries by Langan Engineering & Environmental Services
2	2005	30-Nov	NJ State Business Gateway Service re: Helion Industries
3	2005	30-Nov	Dun & Bradstreet Comprehensive Report re: Helion
4	2005	30-Nov	Dun & Bradstreet Comprehensive Report re: Belleville Industrial Center
5	2003	10-Feb	Preliminary Assessment Report - Former Helion Industries
6	1993	28-Jul	Preliminary Assessment - Ideal Plating & Polishing Company
7	1996	16-Sep	Letter from Helion to USEPA re: response to information
8	2003	10-Nov	Soil Boring Locations And Exceedance map
9	2005	14-Jan	Remedial Investigation Report for Former Helion Industries& Bellville Industrial Center by Langan Engineering
10	Undated		Passaic River Discharge Outlets
11	1973	19-Jul	Report On The Quality Of The Interstate Waters Of The Lower Passaic River and Upper and Lower Bays of New York Harbor
12	1977	20-Apr	PVSC Stream Contaminatin report re: Belleville Industrial Center
13	1977	20-May	Bi-Monthly Report from PVSC for March & April of 1977

SITE INVESTIGATION REPORT

FORMER HELION INDUSTRIES, INC.
BUILDINGS 4A, 6B, 9-12, 12A, 14, 17, 18, 22 and 23
BELLEVILLE INDUSTRIAL CENTER
681 MAIN STREET
BELLEVILLE, NEW JERSEY 07109
ISRA CASE# 20010286

Prepared For:

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NJ Certificate of Authorization No: 24GA27996400

18 December 2003 1827401



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TABLE OF CONTENTS

<u>Secti</u>	on No.		Page No.
1.0	INTR	ODUCTION	1
2.0	PHYS 2.1 2.2 2.3 2.4 2.5 2.6	SICAL SETTING Site Description and Location Property Ownership and Use Topography Geology Hydrogeology Surface Water	2 3 3
3.0	PRE\	IOUS ENVIRONMENTAL INVESTIGATIONS	4
4.0	TECH 4.1 4.2 4.3	NICAL OVERVIEW Sampling Program	5 5
5.0	FIELI 5.1 5.2 5.3	AND ANALYTICAL METHODOLOGIES Soil Sampling	6 7 7
6.0	6.1 6.2	AOC #1: Former Aboveground Storage Tanks	9101111
	6.3	6.2.3 Conclusions and Recommendations	13 13 14
7 0	REFE	RENCES	15

000000134

LIST OF TABLES

Table 1 Analytical Methods Table 2

Sample Summary
Soil Sample Analytical Results Table 3

LIST OF FIGURES

Figure 1 Site Location Map

Figure 2 Soil Sample Locations & Exceedances

LIST OF APPENDICES

Soil Boring Logs Appendix A

Laboratory Analytical Data Appendix B

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1.0 INTRODUCTION

Langan Engineering and Environmental Services, Inc. ("Langan") has prepared this report on behalf of the Belleville Industrial Center to summarize the findings of a site investigation conducted at the former Helion Industries leasehold located at the Belleville Industrial Center, 681 Main Street in Belleville, New Jersey ("study area"). The study area occupies a portion of Block 56, Lot 6 and includes contiguous buildings 4A, 6B, 9-11, 14, 17, and 18 and portions of separate buildings 12, 12A, 22 and 23. Helion ceased operations and vacated the leasehold in 2001 without complying with the Industrial Site Recovery Act (ISRA), and is currently filing for Chapter 11 Bankruptcy. As such, Belleville Industrial Center has undertaken the task of complying with ISRA on Helion's behalf. To date a General Information Notice and a 10 February 2003 *Preliminary Assessment Report* has been filed with the NJDEP.

The objective of this site investigation was to investigate and evaluate specific areas of concern ("AOCs") that were identified in Langan's *Preliminary Assessment Report* as requiring further actions. This investigation was completed through a visual inspection of the AOCs, a subsurface investigation, and the analysis of soil samples. The following AOCs were investigated:

- AOC #1: Former Above Ground Storage Tanks;
- AOC #2: Floor Drains, Trenches, Piping & Sumps; and,
- AOC #4: Hazardous Materials Storage or Handling Areas.

Two additional AOCs (AOC #3 and AOC #5) were also identified in the *Preliminary Assessment Report*. The process area sinks located within buildings 4A and 9B within the leasehold were designated as AOC #3. No further actions were recommended as the sinks were connected to the facility's sanitary sewer system and there was no apparent evidence of process liquids entering the sinks. The loading or transfer areas in buildings 11A and 17 (transfer and loading areas, respectively) were designated as AOC #5. No further actions were recommended with relation building 11A as only finished products were shipped from this location and no contamination issues were identified

during the preliminary assessment. The loading area (building 17) was herein addressed in conjunction AOC #1.

Site Investigation activities were conducted on October 9 & 10, 2003 in accordance with the NJDEP's *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E), readopted December 17, 2002 (amendments February 3, 2003), and the NJDEP's *Field Sampling Procedures Manual*, dated May 1992. The NJDEP's *Technical Requirements for Site Remediation* is referenced to as the Tech Rule within this report. A Baseline Ecological Evaluation was not conducted during this phase of site investigation but will be conducted during the next phase of work after additional sampling is completed.

2.0 PHYSICAL SETTING

2.1 Site Description and Location

The study area encompasses several buildings within the Belleville Industrial Center located at 681 Main Street in Belleville, Essex County, New Jersey. The study area occupies a portion of Block 56, Lot 6 and includes contiguous buildings 4A, 6B, 9-11, 14, 17, and 18 and portions of separate buildings 12, 12A, 22 and 23.

2.2 Property Ownership and Use

The former Helion leasehold is located within the Belleville Industrial Center complex. The following description discusses the history of the space that Helion occupied. Prior to 1906, the study area was undeveloped except for a 2½ story dwelling and an associated shed. Sometime between 1906 and 1938, the current buildings were constructed for use by Federal Leather until 1968. Belleville Industrial Center took ownership in 1970; after which, Helion Industries, Inc. (formerly Contrar, Inc.) began operations in the study area in 1975 under a lease agreement. Helion vacated the leasehold in 2001 and is currently filing for Chapter 11 Bankruptcy. At this time, no operations are conducted within the leasehold, and the space is vacant Cook 137

2.3 Topography

The study area topography slopes downward from the west-northwest to the east-southeast towards the Passaic River. A copy of the Orange, United States Geological Survey 7.5-minute series topographic map is provided as Figure 1.

2.4 Geology

Site investigation field activities revealed that the subsurface stratigraphy is comprised of a layer of fill consisting of medium to coarse sand, with medium gravel. The thickness of the fill layer varies from approximately 4 ft to 12 ft with an average of 8 ft. The fill layer is underlain by natural fine to medium sand, with some fine to medium gravel and some sandy silt. As determined through an evaluation of the "Bedrock Geologic Map of Northern New Jersey", the bedrock underlying the study area is of the New Brunswick Formation and consists of sandstone.

2.5 Hydrogeology

Overburden groundwater was encountered at approximately 13 ft below ground surface ("bgs") during the site investigation in borings 11C-a and 14B-c. Groundwater flow direction is assumed to follow topography and flow to the east-southeast towards the Passaic River.

As bedrock groundwater was not investigated, for report completeness a map entitled "Aquifers of New Jersey" was evaluated and provided the description herein. Bedrock groundwater is classified as a fractured-rock aquifer of the Newark Basin. Groundwater is further classified as the Brunswick aquifer in which groundwater is stored and transmitted in the fractures of the bedrock. Groundwater is normally fresh, slightly alkaline, non-corrosive and hard. Pumping rates within the aquifer are typically less than 100 gallons to 250 gallons per

minute from high-capacity wells. Groundwater flow in bedrock is anticipated to follow topography and flow to the east-southeast towards the Passaic River.

Groundwater existing beneath the site is classified by the NJDEP as "Class IIA", which is defined as a potable water source (i.e. domestic use, agricultural use, industrial use, etc.).

2.6 Surface Water

No surface water bodies are located within the study area. The closest water body is the Passaic River, which is located approximately 400 feet east-southeast of the study area. The waters of this portion of the Lower Passaic River are generally classified as saline and estuary (SE) waters according to the November 2003 NJDEP Surface Water Quality Standards.

3.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

In October 2002, Langan conducted a preliminary assessment to identify the presence of AOCs in the study area. As detailed in the *Preliminary Assessment Report* dated 10 February 2003, a total of 5 AOCs were identified; 3 AOCs were recommended for further evaluation as part of the site investigation (see Section 1.0 of this report). No further actions were recommended for the remaining AOCs (AOC #3: Process Area Sink and AOC #5: Loading or Transfer Areas) as there was no evidence that indicated a release to the subsurface.

4.0 TECHNICAL OVERVIEW

This section briefly describes the sampling program, the quality of the analytical data, and an overall assessment of impacts to the study area. In addition, a proposed approach for addressing identified soil contamination is provided within.

4.1 Sampling Program

The site investigation sampling program was completed in accordance with the Tech Rule. Field activities consisted of advancing soil borings to facilitate field screening with a photo ionization detector and the examination of soil for the presence of visual and olfactory indicators of contamination. In accordance with the site investigation objectives or where contamination was present, soil samples were collected for laboratory analysis. Specifically, total petroleum hydrocarbon, along with Priority Pollutant +40 and pH analysis were performed on all samples for all investigated AOCs.

It should be noted that during the evaluation of AOC #2: Floor Drains, Trenches, Piping and Sumps; elevated photo ionization detector readings and soil discoloration were observed in soil borings 11C-a and 11C-b. Based on this observation, a decision was made to further analyze these samples for alcohols, as alcohols were used by Helion during their operations.

4.2 **Analytical Data Quality Assessment**

Sample analyses were performed in accordance with the following documents:

- "Test Method for Evaluating Solid Waste", SW-846, 3rd Edition;
- Federal Register, 40 CFR Part 136;
- "Methods for the Determination of Metals in Environmental Samples", EPA/600/4-91/010, June 1991;
- "Methods of the Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983; and,
- "American Society for Testing and Materials" (ASTM), June 1991.

The overall assessment of data quality is acceptable. Sample surrogates, tuning, calibration, internal standard areas and retention times were within control limits.

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4.3 Overall Assessment of Impacts

Fifteen soil borings were advanced throughout the leasehold to evaluate AOCs #1, #2, and #4. Elevated levels of volatile organic compounds (e.g. benzene, cis-1,2 dichloroethene, tetrachloroethene, and trichloroethene), semi-volatile organic compounds, (e.g. benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, and bis(2-Ethylhexyl)phthalate, antimony, and copper were identified in soils adjacent to sumps and floor drains in buildings 11C and 18, respectively. In addition, an elevated level of trichloroethene was detected in Helion's former hazardous material storage area in building 11B. The contaminants are believed to be attributable to effluent that discharged to the sumps and the numerous former chemicals that were utilized within the leasehold by Helion. To determine the full extent of the contamination, a remedial investigation is recommended that consists of the advancement of soil borings and collection of soil samples.

5.0 FIELD AND ANALYTICAL METHODOLOGIES

The following is a discussion of the methodologies utilized during the completion of the site investigation. All work was conducted in accordance with the NJDEP Tech Rule, as previously mentioned.

5.1 Soil Sampling

Soil borings were completed by using a track-mounted GeoprobeTM. The GeoprobeTM, which was operated by a trained technician from Environmental Field Service, Inc. of Marlton, NJ, was used to extract soil cores from the subsurface in an acetate-lined 4-foot long by 2-inch diameter sampling tube. All collected soil cores were inspected, field screened with a photo ionization detector, examined for visual and/or olfactory evidence of contamination, and logged (see Appendix A). Afterwards, soil samples were collected in conformance with site investigation objectives or at intervals likely to contain

potential soil impacts. Each soil sample was field homogenized (volatile organic compounds were collected with a syringe from an undisturbed sample in accordance with NJDEP Field Extraction/Methanol Preservation Method) and placed in laboratory provided containers. After the designation of a sample identification number, soil samples were sealed, -labeled, packed on ice, documented following proper chain of custody procedures and delivered by courier to a NJDEP-certified laboratory for analysis. After the desired depth of each soil boring was achieved, the boreholes were backfilled, sealed and located on a site plan.

5.2 Analytical Methods

Sample analyses were performed by Veritech Laboratory of Hampton-Clarke, Inc. of Fairfield, New Jersey (NJDEP Laboratory Certification No. 14622). All results were reported according to the format specified for New Jersey Level IV QC & Data Packages - Reduced Laboratory Data Deliverables for Non-USEPA CLP Methods. The analytical methods are summarized in Table 1.

5.3 Quality Assurance/Quality Control

5.3.1 Equipment Calibration

The photo ionization detector used in the field was calibrated at the beginning and end of each day. It was calibrated to 100 ppm (\pm 1 ppm) with isobutylene. If a reading was suspect, the detector's response was checked. If a poor response was observed, the detector was recalibrated.

The gram scale utilized for weighing volatile soil samples was calibrated daily with a 200-gram weight. If measurements were suspect, the gram scale was re-calibrated.

5.3.2 Equipment Decontamination

When possible, decontaminated, disposable equipment was utilized during sample collection. Where reusable equipment was utilized, the following decontamination procedure was used to reduce the possibility of cross-contamination:

- Sampling equipment (i.e. stainless steel trowels and bowls, Geoprobe rods, etc.) was wiped clean and rinsed with deionized water;
- 2) these items were then scrubbed with Liquinox soap and water to remove any remaining debris;
- 3) the equipment was then rinsed with deionized water;
- 4) followed by a 10% nitric acid and hexane rinse; and,
- 5) finally, rinsed with deionized water.

6.0 INVESTIGATION RESULTS

The objective of the site investigation was to evaluate AOCs that were identified in Langan's *Preliminary Assessment Report* as needing further actions. Accordingly, the site investigation was completed to evaluate the following AOCs:

- AOC #1: Former Aboveground Storage Tanks;
- AOC #2: Floor Drains, Trenches, Piping and Sumps; and,
- AOC #4: Hazardous Material Storage or Handling Areas.

The results of the site investigation are presented within this section. As required by the Tech Rule, the results are compared against the NJDEP unrestricted use criteria to establish the basis for a conclusion as to the environmental condition of the study area and impact from historical industrial operations. In instances where results indicate an exceedance of the unrestricted use criteria, investigative actions are recommended within.

6.1 AOC #1: Former Aboveground Storage Tanks

6.1.1 Description

The locations of the former aboveground storage tanks (formerly located in the Tank Room (Room 17)) are shown on Figure 2. Seven former aboveground storage tanks were located in building 17 in the Tank Room and were used to store the following raw materials:

- Tank 001 (3,000 gallon) 60% ammonium thiosulfate
- Tank 002 (3,000 gallon) 60% ammonium thiosulfate
- Tank 003 (3,000 gallon) Dismantled and removed prior to November 1998, former contents unknown
- Tank 004 (3,000 gallon) Raw materials differed depending on production requirements.
- Tank 005 (3,000 gallon) Raw materials differed depending on production requirements.
- Tank 006 (4,000 gallon) 36% aluminum sulfate
- Tank 007 (6,000 gallon) 45% potassium sulfate

Tanks 001, 002, 004, and 005 vented through a water recovery carbon adsorption unit prior to discharging to the room. Tanks 006 and 007 vented to the room. During Helion's processes the above listed materials, and other chemicals (i.e. dry powders, drummed materials, etc.) were piped to the Mixing Room in building 14B and mixed in 10 former above ground mixing vats.

During the preliminary assessment, all ASTs were observed. To date all ASTs in building 17 and the mixing vats in building 14B have been cleaned, decommissioned, and disposed of off-site. In general, the concrete ground surface within the Tank Room and Mixing Room where the ASTs were located was heavily stained and pitted. A site

investigation was recommended within the Tank Room and Mixing Room at areas of staining and breaches in the concrete ground surface to identify any subsurface contamination issues.

6.1.2 Findings

Two soil borings (17A and 17B) were advanced within areas of heavy staining or disturbed concrete flooring in the former Tank Room (building 17), and four soil borings (14B-a, 14B-b, 14B-c and 14B-d) were advanced either in, or adjacent to, the trenching system in the former Mixing Room (building 14B). Soil boring locations are depicted in Figure 2. No evidence of contamination was noted during field screening as indicated in the soil boring logs provided in Appendix A.

One soil sample was collected from each boring from a six inch interval directly below the flooring sub-base in building 17 (0.5 ft to 1 ft) and at the invert of the trenching system in building 14B (0.5 ft to 1 ft). Each sample was analyzed for total petroleum hydrocarbons, priority pollutants +40 and pH (sample summary provided as Table 2). As indicated in Table 3 and Appendix B, all parameters were reported as either non-detect or at concentrations below the unrestricted use NJDEP Soil Cleanup Criteria.

6.1.3 Conclusions and Recommendations

No contamination in access of NJDEP soil remediation guidelines were identified through sampling. Accordingly, no further actions are recommended.

6.2 AOC #2: Floor Drains, Trenches, Piping, and Sumps

6.2.1 Description

The locations of the floor drains, trenches and sumps are shown on Figure 2. Floor drains, trenches and sumps were used by Helion to direct process wastewaters to the property's sewer system and ultimately the Passaic Valley Sewage Commissioners. The discharge of the process wastewater stream was permitted by Passaic Valley Sewage Commissioners through a Sewer Use Permit. Site investigation activities were recommended to visually inspect the integrity of the trenches and sumps. If breaches were apparent, sampling was recommended to identify any subsurface contamination issues.

6.2.2 Findings

Through inspection, it was determined that cracking and pitting was apparent in the trenches and sumps; therefore, a site investigation was conducted that biased sample locations to the areas of suspect integrity. Soil borings 4A-a, 4A-b, 4A-c, 9C-a, 9C-b, 11C-a, 11C-b, and 18 were advanced either adjacent to, or through, the trenches and sumps as shown in Figure 2. Soil borings 14B-a, 14B-b, 14B-c and 14B-d which were completed for the evaluation of AOC #1 also served to evaluate this AOC.

While advancing soil borings 11C-a and 11C-b, each adjacent to a sump, elevated photo ionization detector readings were recorded which correlated to apparent soil staining and odors. In boring 11C-a, measured readings were 90 ppm at 0.5 ft to 1 ft bgs, and decreased with depth to 10 ppm at 4 ft bgs and 0 ppm, thereafter to 16 ft bgs. The soil staining at this location was evident to 12 ft bgs. In boring 11C-b, elevated readings of 80 - 162 ppm were noted at 0.5 ft to 1 ft bgs and lower measured

readings continued throughout the boring (20 ppm at 6 ft. b.g.s. and 32 ppm at 8 ft bgs). The soil staining at this location was evident to 5 ft bgs. Soil boring logs are provided in Appendix A.

From each soil boring, one soil sample was collected from the invert of the trench or sump (0.5 ft to 1 ft) and analyzed for total petroleum hydrocarbons, priority pollutants +40 and pH (sample summary provided as Table 2). At locations 11C-a and 11C-b the selected sample interval correlated with the highest noted photo ionization readings and the obvious staining and odors in each boring. Samples 11C-a and 11C-b were also analyzed for alcohols based on the obvious contamination and Helion's past use of alcohols.

As provided in Table 3 and Appendix B, analytical results indicate exceedances of volatile organic compounds in 11C-a, 11C-b, and 18 and semi-volatile compound exceedances in 11C-a and 18 above the unrestricted use NJDEP Soil Cleanup Criteria. Additionally, antimony and copper were elevated above the aforementioned regulatory criteria in sample 18. The following concentrations were detected:

Summary of Parameters that Exceed Unrestricted Use NJDEP Soil Cleanup Criteria

VOCs		P Soil Cl eria (mg		<u>11C-a</u> (mg/kg)	<u>11C-b</u> (mg/kg)	<u>18</u> (mg/kg)
Benzene	3	13	1	Non Detect	6.6	Non Detect
Cis-1,2-Dichloroethene	79	1000	1	1.8	0.94	0.13
Tetrachloroethene	4	6	1	6.3	9	6.7
Trichloroethene	23	54	1	5.8	18	5.9
SVOC						
Benzo[a]anthracene	0.9	4	500	1.1	0.37	Non Detect
Benzo(a)pyrene	0.66	0.66	100	0.91	0.41	Non Detect
Benzo[b]fluoranthene	0.9	4	50	1.2	0.48	Non Detect
Bis(2-Ethylhexyl)phthalate	49	210	100	0.079	0.14	59
METALS						
Antimony	14	340	NS	Non Detect	Non Detect	54
Copper	600	600	NS	17	98	990

Bold and italicized font indicates an exceedance of unrestricted use criteria.

NS: Not Specified

6.2.3 Conclusions and Recommendations

The exceedances noted in 11C-a and 11C-b correspond directly with field observations and screening. The source of the constituents likely stems from the nearby sump and the former effluent that was received by the sump, and is not believed to be fill related. The exceedances in 18 were noted directly below a compromised floor drain. As noted in the 10 February 2003 *Preliminary Assessment Report*, Helion utilized a variety of hazardous materials, including solvents in their operations.

A remedial investigation is recommended to determine the extent of contamination. The investigation is envisioned to consist of the advancement of four soil borings surrounding each of the exceedances and one soil boring adjacent to the original locations. From the four surrounding borings, one soil sample would be collected from 0.5 ft to 1 ft and analyzed for volatile organic compounds with additional analyses of polynuclear aromatic hydrocarbons performed on the soils surrounding 11C-a and 18, as well as, antimony and copper on the soil around 18. From the borings placed adjacent to the original locations, one soil sample would be collected below staining at each location to provide vertical delineation. In addition, these borings would be advanced to confirm the depth to groundwater. The findings of this investigation would be utilized to determine the volume of soil to be remediated; as well as, to determine if soil impacts reach groundwater.

6.3 AOC #4: Hazardous Material Storage or Handling Areas

6.3.1 Description

The locations of the hazardous material storage and handling areas are shown on Figure 2. Liquid and powder chemicals were stored in various containers (bags, pails, drums, and above ground storage tanks) within

buildings 6B, 9C, 11B, 11C, 14B, 17, & 18 and were processed during Helion's operations in buildings 9C, 11C, and 14B. As noted during the preliminary assessment, heavy staining and pitting were noted on the concrete ground surface within these areas. A site investigation was recommended at areas of staining and breaches in the concrete ground surface to identify any subsurface contamination issues.

6.3.2 Findings

Beyond the soil borings completed in conjunction with AOCs #1 (17A, 17B, 14B-a, 14B-b, 14B-c and 14B-d) and AOC #2 (4A-a, 4A-b, 4A-c, 9C-a, 9C-b, 11C-a, 11C-b, 14B-a, 14B-b, 14B-c, 14B-d and 18) soil boring 11B was also advanced to evaluate potential subsurface impacts. During its advancement, no contamination was identified through field screening (see Appendix A). One soil sample was collected from beneath the concrete (0.5 ft to 1 ft) and analyzed for total petroleum hydrocarbons, priority pollutants +40 and pH (sample summary provided as Table 2). As provided in Table 3 and Appendix B, trichloroethene (1.1 mg/kg) marginally exceeded unrestricted use NJDEP soil cleanup criteria.

6.3.3 Conclusions and Recommendations

As sample 11B was biased towards a breach in the concrete flooring, the exceedance noted likely correlates to the former hazardous materials stored/handled in the building. A remedial investigation is recommended to confirm the concentration and if necessary determine the extent of contamination.

The investigation is envisioned to consist of advancing a boring directly adjacent to 11B to facilitate soil collection and confirmation volatile organic analysis. If trichloroethene analytical results are reported below 1 mg/kg (the most stringent regulatory criteria for trichloroethene) no further sampling will be performed and no further actions will be

recommended. If the result exceeds 1 mg/kg, a deeper sample will be collected from the boring to provide vertical delineation, and four soil borings will be advanced surrounding the exceedance. From each of the surrounding borings, one soil sample would be collected from 0.5 ft to 1 ft and analyzed for volatile organic compounds. The findings of this investigation would be utilized to determine the volume of soil to be remediated; as well as, to determine if soil impacts reach groundwater.

7.0 REFERENCES

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New Jersey 1996 State Water Quality Inventory Report; State of New Jersey Department of Environmental Protection Policy and Planning: Office of Environmental Planning.

N.J.A.C. 7:9B, Surface Water Quality Standards, New Jersey Department of Environmental Protection, November 2003.

N.J.A.C. 7:26E, *Technical Requirements for Site Remediation*, Site Remediation Program, readopted December 17, 2002 (amendments February 3, 2003).

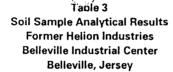
Field Sampling Procedures Manual, NJDEP, July 1994.

Table 1 Analytical Methods Fromer Helion Industries, Inc. Belleville Industrial Center Belleville, New Jersey

Analytical Parameter	Abbreviation	Analytical Method for Soil
Total Petroleum Hydrocarbons	TPHC	Method 418.1M
Priority Pollutant Parameters plus a library search of 40 tentatively identified compounds	PP+40	See Below
Priority Pollutant Volatile Organic Compounds plus a library search of 10 tentatively identified compounds	PPVO+10	Method 8260
Priority Pollutant Base Neutral & Acid Extractable Compounds plus a library search of 25 tentatively identified compounds	PPBNA+25	Method 8270
Polychlorinated Biphenyls	PCBs	Method 8082
Organochlorine Pesticides	Pesticides	Method 8081
PhenoIs	Phenois	Method 9065
Priority Pollutant Metals	PP Metals	Method 6010
Cyanide	Cyanide	Method 9014
Mercury	Mercury	Method 7471A
рН	рН	Method 9045C
Alcohols	Alcohols	Method 8015

Table 2
Sample Summary
Former Helion Industries, Inc.
Belleville Industrial Center
Belleville, New Jersey

Area of Concern	Sample	Sample ID	Sample Depth	Sample Date	Sample	Laboratory ID		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	arameters	
Area of Concern	Location	Sample to	Sample Depth	Sample Date	Matrix	Laboratory ID	PP +40	TPH	рН	ALCOHOL
		r				1				
-	17-A	17-A	0.5-1	10/9/2003	Soil	AB95639		1	1	
	17-B	17-B	0.5-1	10/9/2003	Soil	AB95640	1	1	1	
AOC #1: Former Aboveground	148-a	14B-a	0.5-1	10/9/2003	Soil	AB95642	1	1	1	
Storage Tanks	14B-b	14B-b	0.5-1	10/9/2003	Soil	AB95643	1	1	1	
<u> </u>	14B-c	14B-c	0.5-1	10/9/2003	Soil	AB95644	1	1 1	1	
	14B-d	14B-d	0.5-1	10/9/2003	Soil	AB95645	1	1	1	
	4A-a	4A-a	0.5-1	10/10/2003	Soil	AB95650	1	1 1	1	T
}	4A-b	4A-b	0.5-1	10/10/2003	Soil	AB95651	1		1	
<u> </u>	4A-c	4A-c	0.5-1	10/10/2003	Soil	AB95652	1	1	1	+
i i	9C-a	9C-a	0.5-1	10/9/2003	Soil	AB95648	1	1	<u>i</u>	
<u> </u>	9C-b	9C-b	0.5-1	10/9/2003	Soil	AB95649		i		
AOC #2: Floor Drains, Trenches,	11C-a	11C-a	0.5-1	10/9/2003	Soil	AB95646	1	1	1	1
Piping and Sumps	11C-b	11C-b	0.5-1	10/9/2003	Soil	AB95647	<u>i</u>	1	1	1
r ipilig and camps	14B-a	14B-a	0.5-1	10/9/2003	Soil	AB95642	1	1	1	
	14B-b	14B-b	0.5-1	10/9/2003	Soil	AB95643	1	1	1	_
	14B-c	14B-c	0.5-1	10/9/2003	Soil	AB95644	1	1	1	
ļ l	14B-d	14B-d	0.5-1	10/9/2003	Soil	AB95645	1	1	1	+
	18	18	0.5-1	10/9/2003	Soil	AB95641	1	1	1	
	9C-a	9C-a	0.5-1	10/9/2003	Soil	AB95648	1	1	1	
U [9C-b	9C-b	0.5-1	10/9/2003	Soil	AB95649	1	1	1	
C	11B	11B	0.5-1	10/10/2003	Soil	AB95653	1	1	1	
O [11C-a	11C-a	0.5-1	10/9/2003	Soil	AB95646	1	1 1	1	1
0	11C-b	11C-b	0.5-1	10/9/2003	Soil	AB95647	1	1	1	1
DC #4: Hazardous Material Storage	14B-a	14B-a	0.5-1	10/9/2003	Soil	AB95642	1	1	1	
or Handling Areas.	14B-b	14B-b	0.5-1	10/9/2003	Soil	AB95643	1	1	1	
്ഗ	14B-c	14B-c	0.5-1	10/9/2003	Soil	AB95644	1	1	1	
~	14B-d	14B-d	0.5-1	10/9/2003	Soil	AB95645	1	1	1	
• •	17-A	17-A	0.5-1	10/9/2003	Soil	AB95639	1	1	1	1
Ţ	17-B	17-B	0.5-1	10/9/2003	Soil	AB95640	1	1	1	
T T	18	18	0.5-1	10/9/2003	Soil	AB95641	1	1	1	



					De	ileville,	0 C1 3 C Y												
Sample ID:	N IDED So	Cleanup Crit	eria (mo/ka)	4.0		4A		4.4		9 <u>C</u>		9C		11	В	110		110	
Sample Depth:	NUDER 301		cha (my/ky)	0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5	
Veritech ID:	Residential	Non-	Impact to	AB9		AB95		AB99		AB95		AB95		AB99		AB9		AB95	
Sample Date.	Direct	Residential	Ground-		/2003	10/10/		10/10		10/9/		10/9/			/2003		2003	10/9/	
Sample Matrix:	Contact	Direct	water	Sc		Sc		Sc			oil	Sc		Sc			lic	Sc	
Units:		Contact		MG		MG,		MG		MG.		MG		MG		limit	/KG	MG,	
				limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	HITH	result	limit	result
VOLATILE ORGANIC COMPOUNDS																			
1.1.1-Trichloroethane	210	1000	50	0.62	Ü	0.61	u l	0.56	U 1	0.6	U	0.62	U	0.59	U	0.63	U	0.63	0 34J
1,1,2,2-Tetrachloroethane	34	70	1	0.62	IJ	0.61	ü	0.56	Ü	0.6	Ü	0.62	U	0.59	U	0.63	U	0.63	U
1.1.2-Trichloroethane	22	420	1	0.62	U	0.61	Ü	0.56	Ü	0.6	U	0.62	Ü	0.59	U	0.63	U	0.63	U
1,1-Dichloroethane	570	1000	10	0.62	U	0.61	Ü	0.56	U	0.6	Ü	0.62	Ü	0.59	U	0.63	U	0.63	0 46J
1,1-Dichloroethene	8	150	10	0.62	U	0.61	Ü	0.56	U	0.6	Ü	0.62	U	0.59	U	0.63	U	0.63	U 400
1,2-Dichloroethane	6	24	1	0.62	U	0.61	- U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	Ü	0.63	U
1,2-Dichloropropane	10	43	NS .	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
	1000	1000	50		u		2.9J		U		U	3.1	U	2.9	u	3.1	U	3.1	U
2-Butanone	NS	NS	NS	3.1 0.62	U	3 0.61	2.9J U	2.8 0.56	U	3 0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
2-Chloroethylvinylether 2-Hexanone	NS NS	NS NS	NS NS	2.5	IJ	2.4	U	2.2	U	2.4	U	2.5	U	2.4	U	2.5	U	2.5	U
	1000	1000			U								U		U		U	·	- 0
4-Methyl-2-Pentanone	1000	1000	50 100	2.5	U II	2.4	U	2.2	U	2.4	U	2.5	U	2.4	U	2.5	U	2.5 2.5	U
Acetone					_	2.4	U	2.2											U
Acrolein	NS	NS	NS	0.62	U	1.8	U	1.7	U	1.8 0.6	U	1.9 0.62	U	1.8 0.59	U	0.63	U	1 9 0.63	U
Acrylonitrile	1 1	5	1			0.61	U	0.56							U				
Benzene	3	13	1	0.12	U	0.12	U	0.11	U	0.12	U	0.12	U	0.12		0.13	U	0.13	6.6
3romodichloromethane	11	46	11	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
3romoform O	86	370	1	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
3romomethane O	79	1000	1	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
Carbon disulfide	NS	NS NS	NS	0.62	υ	0.61	υ	0.56	U	0.6	υ	0.62	U	0.59	U	0.63	0.62J	0.63	U
Carbon tetrachloride	2	4	11	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
Chlorobenzene	37	680	1	0 62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
moroetriane	NS	NS	NS	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
morotorm	19	28	1	0.62	U	0.61	U	0 56	U	0.6	U	0.62	U	0.59	, U	0.63	U	0.63	0 52
Chloromethane UT	520	1000	10	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
is-1,2-Dichloroethene	79	1000	1	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	1.8	0.63	0 94
Jis-1,3-Dichloropropene	NS	NS	NS	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
Dibromochloromethane	110	1000	1	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
thylbenzene	1000	1000	100	0.12	U	0.12	0.59	0.11	U	0.12	U	0.12	U	0.12	U	0.13	0.13	0.13	U
/&p-Xylenes	410	1000	67	0.25	0.31	0.24	4.9	0.22	0.28	0.24	U	0.25	U	0.24	U	0.25	0.59	0.25	0.5
Aethylene chloride	49	210	11	0.62	U	0.61	U	0.56_	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
)-Xylene	410	1000	67	0.12	U	0.12	2.2	0.11	U	0.12	U	0.12	U	0.12	U	0.13	0.36	0.13	0.25
ityrene	23	97	100	0.12	U	0.12	U	0.11	U	0.12	U	0.12	U	0.12	U	0.13	U	0.13	U
etrachloroethene	4	6	11	0.62	U	0.61	U	0.56	U	0.6	U	0.62	0.16J	0.59	U	0.63	6.3	0.63	9
oluene	1000	1000	500	0.12	17	0.12	9.5	0.11	0.34	0.12	U	0.12	U	0.12	U	0 13	U	0.13	2.2
rans-1,2-Dichloroethene	1000	1000	50	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
rans-1,3-Dichloropropene	4	5	11	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
richloroethene	23	54	1	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	1.1	0.63	5.8	0.63	18
inyl chloride	2	7	10	0.62	U	0.61	U	0.56	U	0.6	U	0.62	U	0.59	U	0.63	U	0.63	U
entatively Identified Compunds (TICs)	1,000	1,000	1,000	<u> </u>	6	<u> </u>	9.53	<u> </u>	11	<u> </u>	0	<u> </u>	0	ļ	0	ļ	3.22	<u> </u>	11 11
otal Volatile Organic Compounds	1,000	1,000	1,000	<u> </u>	23.31	<u> </u>	29.62	<u> </u>	1.62	<u> </u>	0	<u> </u>	0.16	<u> </u>	1.1		18 82		49 92

Table 3 Soil Sample Analytical Results Former Helion Industries Belleville Industrial Center Belleville, Jersey

					Ве	lleville	, Jersey	,											
Sample ID:	NIDEDC	I Classon Cod		4,	A-a	4,	4-b	4/	₹-c	90	C-a	90	-b	7 1	В	110	C-a	110	С-б
Sample Depth:	MUDER 50	il Cleanup Crit	eria (mg/kg)	0.	5-1	0.	5-1	0.5	5-1	0.5	5-1	0.9	5-1	0.5	5-1	0.5	5-1	0.5	<u></u> 5-1
Veritech ID:	Residential	Non-	Impact to	AB9	5650	AB9	5651	AB9	5652	AB9	5648	AB9	5649	AB9	653	AB99	5646	AB99	5647
Sample Date	Direct	Residential		10/10	0/2003	10/10)/2003	10/10	/2003	10/9/	2003	10/9/	2003	10/10	/2003	10/9/	/2003	10/9/	2003
Sample Matrix:	1	Direct	Ground-	S	ioil	S	oil	S	oil	S	oil	S	pil	S	oil	Sc	oil	Sc	oil
Units:	Contact	Contact	water	MC	S/KG	MC	KG .	MG	/KG	MG	/KG	MG	/KG	MG	/KG	MG	i/KG	· MG	/KG
				limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	result
BASE NEUTRALS AND ACID EXTRACTABLES																			
1,2,4-Trichlorobenzene	68	1,200	100	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
1,2-Dichlorobenzene	5,100	10,000	50	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
1,2-Diphenylhydrazine	NS	NS	NS	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
1,3-Dichlorobenzene	5,100	10,000	100	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
1 4-Dichlorobenzene	570	10,000	100	0.41	1 11	0.4	11	0.38	- 11	0.4	0	0.4	11	0.39	11	0.41	T II	0.4	Ш

BASE NEUTRALS AND ACID EXTRACTABLES																			
1,2,4-Trichlorobenzene	68	1,200	100	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
1,2-Dichlorobenzene	5,100	10,000	50	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
1,2-Diphenylhydrazine	NS	NS	NS	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
1,3-Dichlorobenzene	5,100	10,000	100	0.41	U	0.4	U	0 38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
1,4-Dichlorobenzene	570	10,000	100	0.41	Ü	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
2,4,5-Trichlorophenol	5.600	10,000	50	041	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	0.093J
2,4,6-Trichlorophenol	62	270	10	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
2,4-Dichlorophenol	170	3,100	10	0.41	U	0.4	U	0.38	U	0.4	0	0.4	Ü	0.39	U	0.41	U	04	U
2,4-Dimethylphenol	1,100	10,000	10	0.41	U	04	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	04	U
2,4-Dinitrophenol	110	2,100	10	0.41	υ	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
2,4-Dinitrotoluene	1	4	10	0.41	U	0.4	U_	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
2,6-Dinitrotoluene	1	4	10	0.41	U	0.4	U	0.38	U	0.4	0	0.4	C	0.39	U	0.41	٦	0.4	U
2-Chloronaphthalene	NS	NS	NS	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
2-Chlorophenol	280	5,200	10	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	υ
2-Methylnaphthalene	NS	NS	NS	0.41	U	0.4	0.15J	0.38	0.13J	0.4	0	0.4	U	0.39	Ü	0.41	0.08J	0 4	0.39J
2-Methylphenol	2,800	10,000	NS	0.41	0.14J	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
2-Nitroaniline	NS	NS	NS	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	Ų	0.4	U
2-Nitrophenol	NS	NS	NS	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
3&4-Methylphenol	2,800	10,000	NS	0.41	C	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	0.078J	0.4	U
3,3'-Dichlorobenzidine	2	6	100	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
3-Nitroaniline	NS	NS	NS	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
4,6-Dinitro-2-methylphenol	NS	NS	NS	0.41	U	0 4	Ų	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
4-Bromophenyl-phenylether	NS	NS	NS	0.41	U	0.4	U	0.38	Ŭ	0.4	0	0.4	U	0.39	LU	0.41	U	0.4	U
4-Chioro-3-methylphenol	10,000	10,000	100	0.41	U	04	U	0.38	U	0.4	0	0.4	υ	0.39	υ	0 41	U	0.4	U
4-Chloroaniline	230	4,200	NS	0.41	U	0 4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
4-Chlorophenyl-phenylether	NS	NS	NS	0.41	U	0.4	U	0 38	U	0.4	0	0. ;	U	0.39	U	0.41	U	0 4	U
4-Nitroaniline	NS	NS	NS	0 41	U	04	Ų	0.38	U	0.4	0	0.4	U	0.39	U	0 41	U	0.4	U
1-Nitrophenol	NS	NS	NS	0.41	U	04	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	υ	0.4	U
Acenaphthene	3,400	10,000	100	0.41	U	0.4	U	0.38	υ	0.4	0	0.4	U	0.39	U	0.41	0.15J	0.4	U
4cenaphthylene	NS	NS	NS	0.41	U	0 4	U	0.38	U	0.4	0	0.4	U	0.39	C	0.41	0.051J	0.4	0 15J
Anthracene	10,000	10,000	100	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	0.75	0.4	0.079J
3enzidine	NS	NS	NS	0.82	U	0.79	Ü	0.76	U	0.79	0	0.79	U	0.78	U	0.82	U	0.8	U
3enzolalanthracene	0.9	4	500	0.41	U	0.4	0.053J	0.38	U	0.4	0.2J	0.4	Ü	0.39	0.044J	0.41	1.1	0.4	0.37J
3enzo[a]pyrene	0.66	0.66	100	0.41	U	0.4	0.053J	0.38	U	0.4	0.17J	0.4	U	0.39	0.039J	0.41	0.91	0 4	0.41
Benzo(b)fluoranthene	0.9	4	50	0.41	0.049J	0.4	0.15J	0.38	0.057J	0.4	0.19J	0.4	U	0.39	0.053J	0.41	1.2	0.4	0.48
3enzo(g,h,i)perylene	NS	NS	NS	0.41	U	0.4	0.094J	0.38	0.085J	0.4	0.12J	0.4	J	0.39	U	0.41	0.47	0 4	0.29J
3enzo[k]fluoranthene	0.9	4	500	0.41	U	0.4	0.052J	0.38	U	0.4	0.12J	0.4	U	0.39	U	0.41	0.38J	0.4	0.26J
3is(2-Chloroethoxy)methane	NS	NS	N\$	0.41	Ü	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	- 0.41	U	0 4	U
3is(2-Chloroethyl)Ether	0.66	3	10	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0 4	U
3is(2-Chloroisopropyl)ether	2,300	10,000	10	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U

Table 3 Soil Sample Analytical Results Former Helion Industries Belleville Industrial Center Belleville, Jersey

Sample ID:	1			4.4	\-a \	4.0	-b T	4A	√-c T	90	-a T	9C	-b	17	В	110	:-a	110	С-b
Sample Depth:	NJDEP Soi	l Cleanup Crit	eria (mg/kg)	0.5		0.5		0.5		0.5		0.5		0.5		0.5		0.5	5-1
Veritech ID:	Residential	Non-	Impact to	AB9	5650	AB9	5651	AB99	652	AB95	648	AB95	649	AB9	5653	AB95	646	AB95	647
Sample Date:	Direct	Residential	Ground-	10/10	/2003	10/10	/2003	10/10	/2003	10/9/	2003	10/9/	2003	10/10	/2003	10/9/7	2003	10/9/	
Sample Matrix:	Contact	Direct	water	S		Sc		Sc		Sc		Sc		S		Sc	+	Sc	
Units:	Contact	Contact	Water	MG		MG		MG		MG		MG		MG		MG		· MG	
				limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	result
Bis(2-Ethylhexyl)phthalate	49	210	100	0.41	0.11J	0.4	1.3	0.38	0.13J	0.4	0.1JB	0.4	0.19J	0.39	0.11J	0.41	0.079J	0.4	0.14JB
Butylbenzylphthalate	1,100	10,000	100	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
Carbazole	NS	NS	NS	0.41	U	0.4	Ü	0.38	Ü	0.4	0	0.4	Ū	0.39	U	0.41	0.3J	0.4	i
Chrysene	9	40	500	0.41	0.074J	0.4	0.16	0.38	0.1J	0.4	0.17J	0.4	- i	0.39	0.041J	0.41	1	0.4	0.41
Dibenzola,hlAnthracene	0.66	0.66	100	0.41	U	0.4	U	0.38	U	0.4	0.054J	0.4	Ū	0.39	U	0.41	0.13J	0.4	0.13J
Dibenzofuran	NS	NS	NS	0.41	Ü	0.4	Ü	0.38	Ü	0.4	0	0.4	Ü	0.39	U	041	0.24J	0.4	0.079J
Diethylphthalate	10,000	10,000	50	0.41	Ü	0.4	Ü	0.38	Ŭ	0.4	0	0.4	U	0.39	υ	0.41	U	0.4	U
Dimethylphthalate	10,000	10,000	50	0.41	Ü	0.4	Ü	0.38	Ü	0.4	ō	0.4	Ū	0.39	Ū	0.41	Ü	0.4	Ü
Di-n-butylphthalate	5,700	10,000	100	0.41	0.16JB	0.4	0.28JB	0.38	0 076JB	0.4	0.088J	0.4	0.09J	0.39	0.13JB	0.41	Ü	0.4	0.2J
2I-n-octylphthalate	1,100	10,000	100	0.41	U	0.4	U.200.0	0.38	U	0.4	0	0.4	U	0.39	U	0.41	Ŭ	0.4	U
Fluoranthene	2.300	10.000	100	0.41	U	0.4	0.12J	0.38	0.046J	0.4	0.33J	0.4	0.048J	0.39	0.12J	0.41	33	0.4	0.51
Fluorene	2,300	10,000	100	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	0.3J	0.4	0.067J
Hexachlorobenzene	0.66	2	100	0.41	U	04	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
devachlorobutadiene	1	21	100	0.41	U	0.4	U	0.38	U	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
dexachlorocyclopentadiene	400	7,300	100	0.41	U	0.4	Ü	0.38	Ū	0.4	0	0.4	U	0.39	U	0.41	U	0.4	U
Hexachioroethane	6	100	100	0.41	U	0.4	U	0.38	ŭ	0.4	0	0.4	U	0 39	U	0.41	U	0.4	U
ndeno(1,2,3-cd)pyrene	0.9	4	500	0.41	U	0.4	0.063J	0.38	0.048J	0.4	0.11J	0.4	U	0.39	U	0.41	0:43	0.4	0.27J
sophorone	1,100	10,000	50	0.41	υ	0.4	U	0.38	U	0.4	U	0.4	U	0.39	U	0.41	U	0.4	U
Vaphthalene	230	4,200	100	0.41	U	0.4	0.043J	0.38	0.07J	0.4	U	0.4	U	0.39	Ü	0.41	0.13J	0.4	0.24J
Vitrobenzene	28	520	10	0.41	U	0.4	U	0.38	U	0.4	U	0.4	U	0.39	U	0.41	U	0.4	U
V-Nitrosodiphenylamine	140	600	100	0.41	U	0.4	U	0.38	U	0.4	U	0.4	υ	0.39	U	0.41	U	0.4	U
1-Nitroso-Di-N-Propylamine	0.66	0.66	10	0.41	U	0.4	U	0.38	U	0.4	Ū	0.4	U	0.39	U	0.41	U	0.4	U
1-Nitrosodimethylamine	NS	NS	NS	0.41	U	0.4	U	0.38	U	0.4	U	0.4	υ	0.39	U	0.41	Ü	0.4	U
'entachlorophenol	6	24	100	0.41	U	0.4	U	0.38	U	0.4	U	0.4	U	0.39	, U	0.41	U	0.4	U
'henanthrene	NS	NS	NS	0.41	0.092J	0.4	0.25J	0.38	0.044J	0.4	0.13J	0.4	U	0.39	0.088J	0.41	3	0.4	0.33J
'henol	10,000	10,000	50	0.41	U	0.4	U	0.38	U	0.4	U	0.4	U	0.39	U	0.41	U	0.4	U
yrene	1,700	10,000	100	0.41	U	0.4	0.11J	0.38	0.053J	0.4	0.28J	0.4	0.041J	0.39	0.094J	0.41	2.3	0.4	04
entatively Identified Compounds	10,000	10,000	10,000	<u> </u>	150.35	-	142.67		144.92	-	170.6	-	145.5	-	155.47	-	111.05		176.72
otal Base Neutrals and Acid Extractables	10,000	10,000	10,000	·	150.98	-	145.55		145.76		172.66	-	145 87		156.19	-	127.43		182.02
*																			
ESTICIDES & POLYCHLORINATED BIPHENYLS	0.04	0.17	50	0.0062	Ū	0.006	ΙÚ	0.0057	U	0.006	U	0 006	U	0.0059	U	0.0062	U	0.006	Tu
Ipha-BHC	NS	NS	NS	0.0062	U	0.006	U	0.0057	U	0.006	u	0.006	U	0.0059	1 U	0.0062	U	0.006	u
· · · · · · · · · · · · · · · · · · ·	NS NS	NS NS	NS NS	0.0062	u	0.006	U	0.0057	U	0.006	U	0.006	U	0.0059	U	0.0062	U	0.006	U
eta-BHC hłordane	NS NS	NS NS	NS NS	0.0062	U	0.006	Ü	0.0057	U	0.008	U	0.006	U	0.0059	u	0.0062	U	0.006	 U
elta-BHC	NS NS	NS NS	NS NS	0.012	- U	0.012	U	0.0057	U	0.012	U	0.012	U	0.012	U	0.012	U	0.012	U
ieldrin	0.042	0.18	50	0.0062	U	0.006	U	0.0057	Ü	0.006	U	0.006	U	0.0059	U	0.0062	U	0.006	U
			50		U	0.006	U	0.0057	U	0.006	U	0.006	U	0.0059	U	0.0062	U		U
ndosulfan I	340	6200	50	0.0062	 	0.006	U	0.0057	U	0.006	U U	0.006	U	0.0059	U	0.0062	U	0.006	Ü
ndosulfan II	340	6200			 "	0.006	U		U	0.006	U	0.006	U	0.0059	- u	0.0062	U		
ndosulfan Sulfate	NS 17	NS 310	NS 50	0.0062				0.0057			U		<u> </u>					0.006	U
ndrin	17	310 1.xls	50	0.0062	0.017	0.006 Page 3	0.0084	0.0057	U	0.006	U	0.006	U	0.0059	U	0.0062	<u>U</u>	0.006	U

Soil Sample Analytical Results Former Helion Industries Belleville Industrial Center

Belleville, Jersey

Sample ID:					4.4	-а	4A	-b	4A	-c	90	-a	9C	-b	11	В	110	C-a	11	C-b
Sample Depth:		- NUDER SO	l Cleanup Crit	eria (mg/kg)	0.5	5-1	0.5	-1	0.5	-1	0.5	-1	0.5	-1	0.5	-1	0.5		0.9	
Veritech ID:		Residential	Non-	impact to	AB95	650	AB99	651	AB95	652	AB95	648	AB95	649	A895	653	AB95		AB9	
Sample Date:		Direct	Residential	Ground-	10/10	/2003	10/10,	2003	10/10/	2003	10/9/:	2003	10/9/2		10/10/		10/9/			/2003
Sample Matrix:		Contact	Direct	water	Sc	oil	Sc		Sc		Sc		So		Sc		Sc			oil
Units:		Contact	Contact	water	MG		MG.		MG		MG		MG		MG		MG			/KG
					limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	result
Endrin Aldehyde		NS	NS	NS	0.0062	U	0.006	0.039	0.0057	Ū	0.006	Ü	0.006	U	0.0059	U	0.0062	U	0.006	0.0073
Endrin Ketone		NS	NS	NS	0.0062	U	0.006	U	0.0057	U	0.006	U	0.006	U	0.0059	U	0.0062	U	0.006	U
Gamma-BHC		NS	NS	NS	0.0062	U	0.006	U	0.0057	Ü	0.006	U	0.006	U	0.0059	Ũ	0.0062	U	0.006	U
Heptachlor		0.15	0.65	50	0.0062	U	0.006	U	0.0057	C	0.006	U	0.006	U	0.0059	U	0.0062	U	0.006	U
Heptachlor Epoxide		NS	NS	NS	0.0062	U	0.006	U	0.0057	U	0.006	U	0.006	U	0.0059	U	0.0062	U	0.006	U
Methoxychlor		280	5200	50	0.0062	U	0.006	U	0.0057	Ü	0.006	U	0.006	U	0.0059	U	0 0062	U	0.006	U
P,P'-DDD		3	12	50	0.0062	U	0.006	U	0.0057	U	0.006	U	0.006	U	0.0059	U	0.0062	U	0.006	U
P.P'-DDE		2	9	50	0.0062	U	0.006	U	0.0057	U	0.006	U	0.006	U	0.0059	Ü	0.0062	U	0.006	U
P.P'-DDT		2	9	500	0.0062	U	0.006	U	0.0057	U	0.006	U	0.006	U	0.0059	U	0.0062	U	0.006	U
Toxaphene		0.10	0.20	50	0.031	U	0.03	U	0.028	υ	0.03	U	0.03	U	0.029	Ų	0.031	U	0 03	U
Aroclor-1016		0.49	2	50	0.031	U	0.03	U	0.028	U	0.03	U	0.03	U	0.029	U	0.031	U	0.03	U
Aroclor-1221		0.49	2	50	0.031	U	0.03	U	0.028	U	0.03	U	0.03	Ų	0.029	Ü	0.031	-	0.03	U
Aroclor-1232		0.49	2	50	0.031	U	0.03	U	0.028	υ	0.03	U	0.03	U	0.029	U	0.031	U	0.03	U
Aroclor-1242		0.49	2	50	0.031	U	0.03	Ų	0.028	U	0.03	Ü	0.03	U	0.029	U	0.031	حا	0.03	U
Aroclor-1248		0.49	2	50	0.031	U	0.03	U	0.028	U	0.03	U	0.03	U	0.029	U	0.031	U	0.03	U
Aroclor-1254	0	0.49	_2	50	0.031	U	0.03	U	0.028	U	0.03	U	0.03	U	0.029	υ	0.031	U	0 03	U
Aroclor-1260	[7]	0.49	2	50	0.031	U	0.03	U	0.028	U	0.03	U	0.03	U	0.029	Ú	0.031	U	0.03	U
	C																			
METALS	(;)		,		,								,				,		· · · · · · · · · · · · · · · · · · ·	
Antimony	- Ö	14	340	NS	2.5	U	2.4	U	2.3	4.3	2.4	U	2.4	U	2.4	U	2.5	U	2.4	U
Arsenic		20	20	NS	2.5	8.1	2.4	4.7	2.3	8.2	2.4	3.8	2.4	3.7	2.4	U	2.5	3.6	2.4	5.1
Barium	0	700	47000	NS	12	380	12	590	11	630	12	91	12	84	12	100	12	92	12	180
Beryllium		2	2	NS	0.74	U	0.71	U	0.68	U	0.71	U	0.71	U	0.71	U	0.74	U	0.72	U
Cadmium	<u>. (7) </u>	39	100	NS	0.74	U	0.71	1	0.68	U	0.71	1.2	0.71	U	0.71	U	0.74	U	0.72	U
Chromium		240 / 270**		NS	6.2	6.3	6	12	5.7	17	6	31	6	15	5.9	11	6.2	16	6	42
Copper		600	600	NS	6.2	26	6	38	5.7	71	6	11	6	48	5.9	25	6.2	17	6	98
Lead		400	600	NS	6.2	81	6	110	57	270	6	84	6	58	5.9	62	6.2	61	6	140
Nickel		250	2400	NS	6.2	9.6	6	11	5.7	12	6	11	6	9.2	5.9	8.3	62	10	6	11 '
Selenium		63	3100	NS	2.2	U	2.1	U	2	U	2.1	U	2.1	U	2.1	U	2.2	U	2.2	U
Silver		110	4100	NS	3.1	U	3	U	2.8	U	3	U	3	U	2.9	U	3.1	U	3	U
Thallium		2	2	NS	1.5	U	1.4	U	1.4	U	1.4	U	1.4	U	1.4	U	1.5	U	1.4	U
Zinc	····	1500	1500	NS	12	130	12	1100	11	760	12	56	12	55	12	41	12	68	12	190
Mercury		14	270	NS	0.1	U	0.099	0.29	0.095	0.22	0.099	0.11	0 099	0.14	0.098	0 17	0.1	0.17	0.1	0.19
ALCOHOLS																				
1-Butanol		NS.	NS	NS					· · ·			· .	T -	·		<u> </u>	12	U	12	Τυ
2-Butanol		NS NS	NS	NS								 	- -		 	 	12	U	12	1 0
2-Methyl-2-Propanol		NS NS	NS	NS	 -:		- -		1		 	- 		.		 - : -	12	U	12	1 0
Ethanol		NS NS	NS	NS		<u> </u>		-		<u></u>		 -			 	<u> </u>	12	U	12	1 0
Isobutyl Alcohol		NS NS	NS	NS	 						 		 		 	<u> </u>	12	U	12	U
Isopropanol		NS NS	NS NS	NS				-			Hi				-	- -	12	U	12	1 ∪ ,
sopropanor			INO	113	<u> </u>	L		<u> </u>	لــــــــــــــــــــــــــــــــــــــ			<u> </u>	نــــــــــــــــــــــــــــــــــــــ			<u> </u>	1 12		1 12	



Soil Sample Analytical Results Former Helion Industries Belleville Industrial Center Belleville, Jersey

Sample ID:	NIDEDS	il Cleanup Cri	teria (mg/kg)	4.	4-а	4	A-b	4.	A-c	90	C-a	90	C-b	1	18	11	C-a	11	IC-b
Sample Depth:	NUDER 30	ii Cleariup Cri	tena ting/kg/	0.	5-1	. 0	.5-1	0.	5-1	0.	5-1	0.	5-1	0.	5-1	0.	5-1	0.	5-1
√eritech ID:	Residential	Non-	Impact to	AB9	5650	ABS	95651	ABS	5652	AB9	5648	AB9	5649	AB9	5653	A89	5646	AB9	55647
Sample Date:	Direct	Residential	Ground-	10/10)/2003	10/1	0/2003	10/10	0/2003	10/9	/2003	10/9	/2003	10/10	/2003	10/9	/2003	10/9	7/2003
Sample Matrix:		Direct	1	S	oil		Soil	S	oil	S	oil	S	oil	S	oil	S	ioil	S	Soil
Jnits:	Contact	Contact	water	MC	KG	M	G/KG	M	3/KG	MG	KG	Mo	S/KG	MG	KG	MC	3/KG	· MC	G/KG
				limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	result
Methanol	NS	NS	NS	-		-	-	-	<u> </u>		-	-		-		12	U	12	U
			•																
CYANIDE																			
Cyanide	1100	21000	NS	0.31	U	0.3	4.7	0.28	U	03	1.8	0.3	U	0.29	U	0.31	U	0.3	3 7
TOTAL PETROLEUM HYDROCARBONS																			
otal Petroleum Hydrocarbons		10,000		42	43	40	310	970	6600	40	U	40	U	40	υ	42	U	41	U
ж																			
)H		NS		N/A	1 7	N/A	77	N/A	7.2	N/A	4.9	N/A	4.5	N/A	8.2	N/A	8.9	N/A	6.2

- **IS: Not Specified**
- J: Not detected at the listed MDL
- -: Not analyzed
- : Estimated concentration below the MDL.
- 3: Detected in the blank,

3old and outlined results indicate an exceedance of criteria

- * Criteria is for the hexavalent form of chromium and is not applicable
- o the total chromium for which the results represent.

DD CC C C O 1 5 7

Table 3 Soil Sample Analytical Results Former Helion Industries Belleville Industrial Center Belleville, Jersey

Sample ID:	NIDERSO	I Cleanup Crite	oria (ma/ka)	14B-a	14B-b	14B-c	14B-d	17-A	17-B	18
Sample Depth:	1430EF 301	i Cleanup Citt	ena (mg/kg/	0 5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0.5-1
Veritech ID:	Residential	Non-	Impact to	AB95642	AB95643	AB95644	AB95645	AB95639	AB95640	AB95641
Sample Date:	Direct	Residential		10/9/2003	10/9/2003	10/9/2003	10/9/2003	10/9/2003	10/9/2003	10/9/2003
Sample Matrix:	l .	Direct	Ground-	Soil						
Units:	Contact	Contact	water	MG/KG						
				limit result						

					limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	res
																		4
ı	VOLATILE ORGANIC COMPOUNDS 1,1,1-Trichloroethane	210	1000 -	50	0.56	l u	0.6	U	0.58	u	0.55	u	0.62	u l	0.61	u	0.57	0.8
1	1,1,2,2-Tetrachloroethane	34	70	1	0.56	U	0.6	u	0.58	Ü	0.55	U	0.62	Ü	0.61	U	0 57	i U.
ı	1,1,2-Trichloroethane	22	420	1	0.56	Ü	0.6	U	0.58	U	0.55	Ü	0.62	U	0.61	U	0.57	1
ı	1,1-Dichloroethane	570	1000	10	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	
1	1.1-Dichloroethene	8	150	10	 													
ı					0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	-
ŀ	1,2-Dichloroethane	6	24	1	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	
١	1,2-Dichloropropane	10	43	NS	0.56	U	0.6	u	0.58	U	0.55	U	0.62	U	0.61	U	0.57	
	2-Butanone	1000	1000	50	2.8	U	3	U	2.9	U	2.8	U	3.1	U	3	U	2.8	
	2-Chloroethylvinylether	NS	NS	NS	0 56	U	06	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	+
1	2-Hexanone	NS	NS	NS	2.2	U	2.4	U	2.3	U	2.2	U	2.5	U	2.4	U	2.3	-
	4-Methyl-2-Pentanone	1000	1000	50	2.2	U	2.4	U	2.3	U	2.2	U	2.5	U	2.4	U	2.3	1
١	Acetone	1000	1000	100	2.2	U	2.4	U	2.3	U	2.2	U	2.5	U	2.4	U	2.3	<u> </u>
1	Acrolein	NS	NS	NS	1.7	U_	1.8	U	1.7	U	1.7	ļυ	1.9	U	1.8	U	1.7	lacksquare
	Acrylonitrile	1	5	1	0.56	U	0.6	U	0.58	U	0.55	L L	0.62	U	0.61	U	0.57	L
	Benzene	3	13	1	0.11	U	0 12	U	0.12	U	0.11	U	0.12	U	0.12	U	0.11	
ı	Bromodichloromethane	11	46	1	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	
-	Bromoform	86	370	1	0.56	Ū	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	Ī
. [Bromomethane	79	1000	1	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	
[Carbon disulfide	NS	NS	NS	0.56	U	0.6	U	0 58	U	0.55	U	0.62	U	0.61	U	0.57	
-	Carbon tetrachloride	2	4	1	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	
. [Chlorobenzene	37	680	1	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	
	Chloroethane	NS	NS	NS	0.56	U	0.6	U	0.58	U	0.55	Ü	0.62	Ü	0.61	U	0.57	Г
Ì	Chloroform	19	28	1	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	Т
1	Chloromethane	520	1000	10	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	Г
Ì	Cis-1,2-Dichloroethene	79	1000	1	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	Ü	0.57	
Ì	Cis-1,3-Dichloropropene	NS	NS	NS	0.56	u	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	
•	Dibromochloromethane	110	1000	1	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	Τ
ł	Ethylbenzene	1000	1000	100	0.11	U	0.12	u	0.12	Ü	0.11	U	0.12	U	0.12	Ü	0.11	\top
- 1	M&p-Xylenes	410	1000	67	0.22	ŭ	0.24	U	0.23	0.22J	0.22	U	0.25	U	0.24	Ū	0.23	\top
	Methylene chloride	49	210	1	0.56	Ü	0.6	U	0.58	U	0.55	T U	0.62	Ü	0.61	U	0.57	\vdash
ŀ	O-Xylene	410	1000	67	0.11	- U	0.12	Ū	0.12	l ŭ	0.11	Ü	0.12	U	0.12	1 11	0.11	+
ŀ	Styrene	23	97	100	0.11	U	0.12	υ	0.12	U	0.11	U	0.12	Ü	0.12	lυ	0.11	+
ł	Tetrachloroethene	4	6	1	0.56	T U	0.6	Ü	0.58	U	0.55	U	0.62	T U	0.61	U	0.57	T
ł	Toluene	1000	1000	500	0.11	1 0	0.12	U	0.12	T U	0.11	U	0.12	U	0.12	T U	0.11	┢
ŀ	Trans-1,2-Dichloroethene	1000	1000	500	0.11	U	0.12	U	0.12	U	0.55	U	0.62	U	0.12	Ü	0.11	+
	Trans-1,3-Dichloropropene	4	5	1	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	+
- 1			54	1	0.56	U	0.6	U	0.58	U	0.55	U	0.62	U	0.61	U	0.57	╁
ł	Trichloroethene	23	7	- 10	•	U	0.6	U	0.58	U U	0.55	$\frac{1}{0}$	0.62	U	0.61	υ	0.57	L
	Vinyl chloride	1 000	1 000	1 000	0.56	 0	1.0.6	0	0.58	1 0	0.55	0	1.0.02	0	0.61	0	1.0.57	1

1,000

1,000

1,000

1,000

1,000

1,000

Tentatively Identified Compunds (TICs)

Total Volatile Organic Compounds

0

0

0

0

0.22

0.41

14 36

0

0



Soil Sample Analytical Results Former Helion Industries

Belleville Industrial Center Belleville, Jersey

Sample ID:	NIDERS	il Cleanup Crit	teria (mg/kg)	14B-a		14B-b	14B-c	14B-d	17-A	17-B	18
Sample Depth	110001 00	ii Cleariup Cri	tena (mg/kg)	0.5-1		0.5-1	0.5-1	0.5-1	0.5-1	0.5-1	0 5-1
Veritech ID:	Residentia	Residential Non- Impact to		AB95642	A	B95643	AB95644	AB95645	AB95639	AB95640	AB95641
Sample Date:	Direct	Residential	orect Ground	10/9/2003	10	0/9/2003	10/9/2003	10/9/2003	10/9/2003	10/9/2003	10/9/2003
Sample Matrix:	Contact	Direct		1 1	Soil		Soil	Soil	Soil	Soil	Soil
Units:	Contact	Contact Water		MG/KG		MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
	limit resul	t limi	t result	limit result	limit result	limit result	limit result	limit result			

DACE NELITRA	LE AND ACID	EXTRACTARIES

	1,2,4-Trichlorobenzene	68	1,200 -	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	04	U	3.9	U
	1,2-Dichlorobenzene	5,100	10,000	50	0.36	U	0.4	U	0.39	U	0.38	U	0.4	Ų	0.4	U	3.9	U
	1,2-Diphenylhydrazine	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	1,3-Dichlorobenzene	5,100	10,000	100	0.36	U	04	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	1,4-Dichlorobenzene	570	10,000	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	2,4,5-Trichlorophenol	5,600	10,000	50	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	2,4,6-Trichlorophenol	62	270	10	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	2,4-Dichlorophenol	170	3,100	10	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	υ	39	U
	2,4-Dimethylphenol	1,100	10,000	10	0.36	U	0.4	U	0.39	U	0.38	Ü	0.4	U	0.4	U	3.9	U
	2,4-Dinitrophenol	110	2,100	10	0 36	U	0.4	U	0.39	C	0.38	U	0.4	U	0.4	U	3.9	U
	2,4-Dinitrotoluene	1	4	10	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	2,6-Dinitrotoluene	1	4	10	0.36	U	0.4	U	0.39	υ	0.38	U	0.4	C	0.4	U	3.9	U
	2-Chloronaphthalene	N\$	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	C	04	U	3.9	U
	2-Chlorophenol	280	5,200	10	0.36	U	0.4	U	0.39	U	0.38	υ	0.4	U	0.4	U	3.9	U
	2-Methylnaphthalene	NS	NS	NS	0 36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	2-Methylphenol	2,800	10,000	NS	0.36	U	04	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	2-Nitroaniline	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	2-Nitrophenol	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
ָרָ <u>ה</u>	3&4-Methylphenol	2,800	10,000	NS	0.36	U	0.4	U .	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
_	3,3'-Dichlorobenzidine	2	6	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
\mathcal{C}	3-Nitroaniline	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U_	0.4	U	3.9	U
\circ	4,6-Dinitro-2-methylphenol	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
\Box	4-Bromophenyl-phenylether	NS	NS	NS	0.36	U	04	U	0.39	U	0.38	U	0.4	U	,04	U	3.9	U
	4-Chloro-3-methylphenoi	10,000	10,000	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
3	4-Chloroaniline	230	4,200	NS	0.36	Ų	0.4	U	0.39	U	0.38	Ų	0.4	U	04	U	39	U
€⁄⊓	4-Chlorophenyl-phenylether	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
6.0	4-Nitroaniline	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	04	U	3.9	U
•••	4-Nitrophenol	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	Acenaphthene	3,400	10,000	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
	Acenaphthylene	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	υ	3.9	U
	Anthracene	10,000	10,000	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
_	Benzidine	NS	NS	NS	0.72	U	0.79	U	0.78	U	0.77	U	0.79	U	0.79	U	7.8	U
Ó	Benzolalanthracene	0.9	4	500	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
သ	Benzolalpyrene	0.66	0.66	100	0.36	U	0.4	Ü	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
ဒ္	Benzolbifluoranthene	0.9	4	50	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	Ų
ภั	Benzolg,h,ilperylene	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
800	Benzo[k]fluoranthene	0.9	4	500	0.36	υ	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
ຸ .	Bis(2-Chloroethoxy)methane	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
۲	Bis(2-Chloroethyl)Ether	0.66	3	10	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U
-	Bis(2-Chloroisopropyl)ether	2,300	10,000	10	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U

Table 3 Soil Sample Analytical Results Former Helion Industries Belleville Industrial Center Belleville, Jersey

Sample ID: 14B-6 14B-6 14B-6 17-A 17-B																					
Sample ID:	N IDEP So	NJDEP Soil Cleanup Criteria (mg/kg)				14B-b		14B-c		14		17-A			-В	11	8				
Sample Depth:	143021 30		ene (mg/kg/	0.		0.9		0.5		0.5		0.5-1		0.5		0.5					
Veritech ID:	Residential	Non-	Impact to		5642	AB95643		AB95644		AB95645						AB95639			5640	AB95	
Sample Date	- Direct	Residential	Ground-		2003	10/9/		10/9/2003 Soil		10/9/2003 Soil MG/KG		10/9/2003		10/9/2003				10/9/200			
Sample Matrix:	Contact	Direct	water		oil		Soil MG/KG					Sc			lic	Sc					
Units:		Contact			/KG			MG				MG,			/KG result	MG					
				limit	result	limit	result	limit	result	limit	result	limit	result	limit_	result	limit	result				
Bis(2-Ethylhexyl)phthalate	49	210	100	0.36	0.097J	0.4	0.1J	0.39	0.12J	0.38	0.07J	0.4	1.3	0.4	0.098J	3.9	59				
Butylbenzylphthalate	1,100	10,000 -	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	0	0.4	U	3.9	U				
Carbazole	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	υ	0.4	υ	0.4	υ	3.9	υ				
Chrysene	9	40	500	0.36	U	04	U	0.39	U	0.38	U	0.4	U	04	U	3.9	U				
Dibenzo[a,h]Anthracene	0.66	0.66	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Dibenzofuran	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Diethylphthalate	10,000	10,000	50	0.36	U	0.4	U	0.39	U	0.38	U	0.4	3.1	0.4	U	39	U				
Dimethylphthalate	10,000	10,000	50	0.36	U	04	U	0.39	U	0.38	U	0.4	U	0.4	Ü	39	U				
Di-n-butylphthalate	5,700	10,000	100	0.36	0.056JB	0.4	0.14JB	0.39	0.14JB	0.38	0.084JB	0.4	6.88	0.4	0.15JB	3.9	1.6JB				
DI-n-octylphthalate	1,100	10,000	100	0.36	U	0.4	U	0 39	U	0.38	U	0.4	0.12J	0.4	U	39	10				
Fluoranthene	2,300	10,000	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Fluorene	2,300	10,000	100	0.36	C	0 4	U	0.39	Ü	0.38	U	0.4	U	0.4	U	3.9	U				
Hexachlorobenzene	0.66	2	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Hexachlorobutadiene	1	21	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Hexachlorocyclopentadiene	400	7,300	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Hexachloroethane	6	100	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	39	U				
Indeno[1,2,3-cd]pyrene	0.9	4	500	0.36	U	0.4	U	0.39	C	0.38	U	0.4	U	0.4	C	3.9	U				
Isophorone	1,100	10,000	50	0.36	U	0.4	U	0.39	U	0.38	C	0.4	U	0.4	C	3.9	U				
Naphthalene	230	4,200	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	C	3.9	U				
Nitrobenzene	28	520	10	0.36	U	0.4	U	0.39	C	0.38	U	0.4	C	0.4	C	3.9	U				
N-Nitrosodiphenylamine	140	600	100	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
N-Nitroso-Di-N-Propylamine	0.66	0.66	10	0.36	U	0.4	U	0.39	C	0.38	U	0.4	U	0.4	U	3.9	U				
N-Nitrosodimethylamine	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Pentachlorophenol	6	24	100	0.36	U	0.4	Ų	0 39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Phenanthrene	NS	NS	NS	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Phenol	10,000	10,000	50	0.36	U	0.4	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Pyrene	1,700	10,000	100	0.36	U	04	U	0.39	U	0.38	U	0.4	U	0.4	U	3.9	U				
Tentatively Identified Compounds	10,000	10,000	10,000	-	117.59	-	116.58	-	137.11		144.53	-	172.05		131.24	-	219.4				
Total Base Neutrals and Acid Extractables	10,000	10,000	10,000	-	117.74	-	116.82	-	137.37	-	144.68	•	173.35	-	131.48	-	280				
	•						· · · · · · · · · · · · · · · · · · ·		<u> </u>				•		•						
PESTICIDES & POLYCHLORINATED BIPHENYLS		,					,														
Aldrin	0 04	0.17	50	0.0054	U	0.006	U	0.0058	U	0 0057	U	0.006	U	0.006	U	0.029	U				
Alpha-BHC	NS	NS	NS	0.0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U	0.029	0.043				
Beta-BHC	NS	NS	NS	0.0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U	0.029	U				
Chlordane	NS	NS	NS	0.011	U	0.012	U	0.012	U	0.011	U	0.012	U	0.012	U	0.058	U				
Delta-BHC	NS	NS	NS	0.0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U_U	0.029	Ų				
Dieldrin	0.042	0.18	50	0.0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U	0.029	U				
Endosulfan I	340	6200	50	0.0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U	0.029	U				
Endosulfan II	340	6200	50	0.0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U	0.029	U				
Endosulfan Sulfate	NS	NS	NS	0.0054	U	0.006	U	0 0058	U	0.0057	U	0.006	U	0.006	U	0.029	U				
Endrin	17	310	50	0.0054	U	0.006	U	0.0058	U	0.0057	Ü	0.006	U	0.006	U	0.029	U				

Table 3 Soil Sample Analytical Results Former Helion Industries Belleville Industrial Center Belleville, Jersey

															18						
Sample ID:	NJDEP Soi	l Cleanup Crit	eria (mg/kg)	14B-a		148-b 0.5-1		14B-c 0.5-1		146		17		17-							
Sample Depth: Veritech ID:		Non-		0.5-1 AB95642						0.5 AB95		0.5-1 AB95639		0.5-1 AB95640		0.5					
Sample Date:	Residential	Residential	Impact to	10/9/2003			AB95643 10/9/2003		AB95644 10/9/2003											AB95	
Sample Date:	Direct		Ground-	Soil			Soil			10/9/2003 Soil		10/9/2003 Soil		10/9/2003 Soil		10/9/3 Sc					
Units:	Contact	Direct	water	MG		MG/KG		Soil MG/KG		MG/KG		MG/KG		MG/KG		MG					
Office	L	Contact		limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	result				
				mint.	resuit	нис	resun		163011	mint	resurt	107114	103010	101111	103011		103011				
Endrin Aldehyde	NS	NS_	NS	0.0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U	0.029	U				
Endrin Ketone	NS	NS ·	NS	0 0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U	0.029	U				
Gamma-BHC	NS	NS	NS	0.0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U	0 029	0 093				
Heptachlor	0.15	0.65	50	0.0054	U	0.006	U	0 0058	U	0.0057	U	0.006	U	0.006	U	0.029	U				
Heptachlor Epoxide	NS	NS	NS	0.0054	U	0.006	U	0 0058	U	0.0057	U	0.006	U	0.006	U	0.029	U				
Methoxychlor	280	5200	50	0 0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U	0.029	U				
P,P'-DDD	3	12	50	0.0054	U	0.006	U	0.0058	U	0.0057	U	0.006	U	0.006	U	0.029	0 53				
P,P'-DDE	2	9	50	0 0054	U	0.006	U	0 0058	U	0.0057	U	0.006	U	0.006	U	0 029	0 081				
P,P'-DDT	2	9	500	0.0054	U	0.006	U	0.0058	Ū	0.0057	Ū	0.006	U	0.006	Ü	0 029	0.33				
Toxaphene	0.10	0.20	50	0.027	U	0.03	U	0.029	V	0.029	Ü	0.03	Ü	0.03	Ū	0.15	U				
Aroclor-1016	0.49	2	50	0.027	U	0.03	U	0.029	U	0.029	U	0.03	U	0.03	U	0.029	U				
Aroclor-1221	0.49	2	50	0.027	U	0.03	U	0.029	U	0.029	Ū	0.03	U	0.03	U	0 029	U				
Aroclor-1232	0.49	2	50	0.027	Ū	0.03	Ü	0.029	Ū	0.029	U	0.03	Ü	0.03	U	0.029	U				
Aroclor-1242	0.49	2	50	0.027	Ü	0.03	U	0.029	U	0.029	Ū	0.03	Ü	0.03	U	0.029	Ū				
Aroclor-1248	0.49	2	50	0.027	Ü	0.03	Ū	0.029	Ü	0.029	U	0.03	Ü	0.03	U	0.029	U				
Aroclor-1254	0.49	2	50	0.027	Ü	0.03	Ü	0.029	Ü	0.029	U	0.03	U	0.03	U	0.029	0.48				
Aroclor-1260	0.49	2	50	0.027	Ü	0.03	Ü	0.029	Ŭ	0.029	U	0.03	Ŭ	0.03	Ü	0 029	U				
METALS Antimony	14	340	NS	2.2	T U	24	ΙŪ	2.3	U	2.3	U	2.4	l U	2.4	U	2.3	54				
Arsenic	20	20	NS	2.2	3.4	2.4	2.9	2.3	3	2.3	3.4	2.4	4.5	2.4	2.9	2.3	4.6				
Barium	700	47000	NS	11	48	12	51	12	78	11	55	12	100	12	84	12	190				
Beryllium	2	2	NS	0.65	U	0.71	U U	0.7	Ü	0.69	Ü	0.71	Ü	0.71	U	0.7	U				
Cadmium	39	100	NS	0.65	Ü	0.71	U	0.7	Ü	0.69	U	0.71	0	0.71	Ü	0.7	25				
Chromium	240 / 270**		NS	5.4	12	6	160	5.8	23	5.7	27	6	13	6	13	5.8	150				
Copper	600	600	NS	5.4	14	6	20	5.8	21	5.7	25	6	17	6	13	5.8	990				
Lead	400	600	NS	5.4	19	6	13	5.8	17	5.7	15	6	30	6	15	5.8	280				
Nickel	250	2400	NS	5.4	5.8	6	10	5.8	9	5.7	8.8	6	11	6	9.9	5.8	22				
Selenium	63	3100	NS	1.9	U	2.1	T U	2.1	Ŭ	2.1	U	2.1	Ü	2.1	U	2.1	34				
Silver	110	4100	NS	2.7	l Ü	3	Ü	2.9	Ü	2.9	Ŭ	3	Ū	3	Ü	2.9	9.7				
Thallium	2	2	NS	1.3	U	1.4	Ü	1.4	Ü	1.4	Ü	1.4	l ü –	1.4	Ü	1.4	U				
Zinc	1500	1500	NS	11	28	12	40	12	62	11	65	12	73	12	48	12	890				
Mercury	14	270	NS	0.09	01	0.099	U	0.097	U	0.096	U	0.099	0.12	0.099	U	0.097	0.46				
Melculy	1 0.03		1 0.055		1 0.007		1 0.000		1 0.000	1 0:12	0.000		1 0.007	0.40							
ALCOHOLS		_		· · · · · · · · · · · · · · · · · · ·						,											
1-Butanol	NS	NS	NS	<u> </u>		<u> </u>	-				<u> </u>	-	<u> </u>	<u> </u>	-	<u> </u>	<u> </u>				
2-Butanol	N\$	NS	NS	-	<u> </u>		-			-	-	-		<u> </u>	-		<u> </u>				
2-Methyl-2-Propanol	N\$	NS	NS							-			-				<u> </u>				
Ethanol	NS	NS	NS		Ī			-	-			-			-	<u></u>					
Isobutyl Alcohol	NS	NS	NS	-	-							-			-						
Isopropanol	NS	NS	NS	-		-			<u> </u>	-	l		· ·		<u> </u>	-	-				

i able :

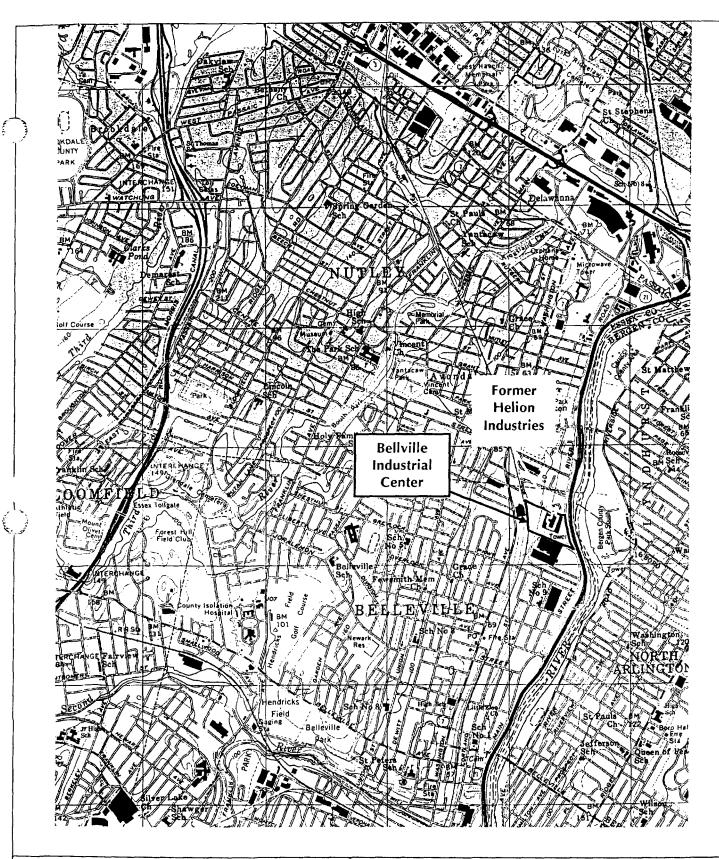
Soil Sample Analytical Results Former Helion Industries Belleville Industrial Center Belleville, Jersey

Sample ID:	ALIDED C.	NJDEP Soil Cleanup Criteria (mg/kg)				14B-b		14B-c		14B-d		17-A		17-B		18	
Sample Depth:	MUDER 20	oii Cleanup Cri	teria (mg/kg)	0.	5-1	0.	5-1	0.5	5-1	0.	5-1	0.	5-1	0.9	5-1	0.	5-1
Veritech ID:	Residentia	Non-	Impact to	AB95642		AB9	AB95643		AB95644		AB95645		5639	AB95640			5641
Sample Date:	Direct	Residential		10/9	10/9/2003 Soil		10/9/2003 Soil		10/9/2003 Soil		10/9/2003 Soil		10/9/2003		10/9/2003		/2003
Sample Matrix:		Direct	Ground- water	S									oil	Soil		Soil	
Units:	Contact	Contact		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG		MG/KG.	
				limit	result	limit	result	limit	result	limit	result	limit	result	limit	result	limit	result
		_															
Methanol	NS	NS	NS			-	-		-	-	-	-	-	-			
			:														
CYANIDE																	
Cyanide	1100	21000	NS	0.27	0.84	0.3	U	0.29	0.46	0.29	5.9	0.3	U	0.3	υ	0.29	1.6
TOTAL PETROLEUM HYDROCARBONS																	
Total Petroleum Hydrocarbons		10,000		37	U	40	U	40	U	39	U	40	u	40	U	200	1100
pH				_													
pH	T	NS N/A		N/A	79	N/A	5	N/A	6.5	N/A	7.2	N/A	4.2	N/A	6.9	N/A	6.8

NS: Not Specified

- U: Not detected at the listed MDL
- -: Not analyzed
- J: Estimated concentration below the MDL.
- B: Detected in the blank.
- Bold and outlined results indicate an exceedance of criteria
- ** Criteria is for the hexavalent form of chromium and is not applicable
- to the total chromium for which the results represent.

00000162





• ELMWOOD PARK, NJ • ATLANTIC CITY, NJ • NEW YORK, NY • MIAMI, FL • NEW HAVEN, CT • DOYLESTOWN, PA • PHILADELPHIA, PA • LAS VEGAS, NV• TRENTON, NJ

DDC000163 SITE LOCATION MAP FORMER HELION INDUSTRIES, INC. BELLEVILLE INDUSTRIAL CENTER BELLEVILLE, NEW JERSEY

 Source: US Geologic Survey, Orange, NJ Quadrangle

 PROJECT
 SCALE
 DATE
 FIGURE

 1827401
 1" = 2000'
 11/10/03
 1



New Jersey State Business Gateway Service

Corporate and Business Information Reporting

Business Entity Status Report

Printing Instructions: Open your Browser's Page Setup menu and set your page margins to 0.25". Use your Browser's Print option to print the report as seen on screen.

Saving Instructions: Save this file to your hard drive for later viewing by using the Browser's "Save As" function. **All available information is displayed.**

Status Report For: HELION INDUSTRIES INC(FORMERLY TEA-CHEM GRAPHICS, INC)

HELION INDUSTRIES INC

Business Name: (FORMERLY TEA-CHEM

GRAPHICS, INC)

Business ID Number: 4502061500 Transaction Number: Sequence: 826016: 1

Business Type: DOMESTIC PROFIT CORPORATION

Status: REVOKED FOR NOT FILING ANNUAL REPORT FOR 2

CONSECUTIVE YEARS

Filing Date: 04/24/1970

Home Jurisdiction: NJ

Stock Amount: 99999999999

Report Date: 11/30/2005

DOR Suspension Start Date: 08/05/2005

Status Change Date:

/05/2005 DOR Suspension End Date:

Tax Suspension Start Date:

Tax Suspension End Date:

Annual Report Month: 7

Last Annual Report Filed: 04/01/2002

For Last Annual Report Paid Year: 2000

Incorporator: X

Agent: CHARLES N BIEBER

Agent Address: 681 MAIN STREET

BELLEVILLE, NJ 07109 - 0000

Office Address Status: Undeliverable

Main Business Address: 128 JOANNA DR.

TOMS RIVER, NJ 08753

Principal Business Address: 128 JOANNA DR.

TOMS RIVER, NJ 08753

Associated Names

Name:

Type Description:

DDC000330

Officers/Directors/Members

1) Title:

SECRETARY

Name:

CHARLES BIEBER

Address:

128 JOANNA DR.

idi C33.

TOMS RIVER, NJ 08753

2) Title:

PRESIDENT

Name:

ROBERT DENEHY

Address:

770 ROSE RANCH RD.

SAN MARCOS, CA 92069



Return to Main List

**If you would like to receive photocopies of documents filed by this business entity, mail your request to PO Box 450, Trenton, NJ 08625. Indicate the Business Entity Number(s) involved and the type of document you wish to have copies of. Your choices are listed below:

CHARTER DOCUMENTS

Original Certificate Only (For example, Certificate of Incorporation);
Changes and Amendments to the Original Certificate Only; OR

All Charter Documents (Original Certificate and Changes/Amendments)

And/or

ANNUAL REPORTS

Copy of Latest Annual Report; OR

Copy of Annual Report for a Specific Year(s) (List the Year Desired)

The photocopy fee for all entities except limited liability companies is \$1 per page. For limited liability companies, the fee is \$10 for the first page and \$2 per page thereafter.

The total fee amount for your order will vary depending on the number of pages associated with each filed document you request. You may supply us with a check with a NOT TO EXCEED instruction to cover the costs. Make the check payable to the Treasurer, State of New Jersey. Alternately, you may pay by credit card (provide card#/expiration date and cardholder information) or depository account. Please include a self-addressed envelope with your order. If you have any questions or would like information on alternative service options such as over-the-counter expedited service, call 609-292-9292 (option 3 on the main menu and then option 8), weekdays, 8:30 a.m. to 4:30 p.m.

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runt this Report

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ATTN: jhb lprsa 5

Report Printed: NOV 30 2005

Overview

BUSINESS SUMMARY

HELION INDUSTRIES INC

HELION **HELIO** 681 Main St (bldg 12) Belleville, NJ 07109

05-406-4449

D&B D-U-N-S Number:

D&B's Credit Limit Recommendation

How much credit should you extend?

işinka grahûgiyadin ihistikinde

Learn More

.ting Change

Our information indicates this business is no longer active at this location. If you have reason to believe this business is currently operating, please call our Customer Service Center at the phone number listed below to request an investigation.

This is a headquarters location. Branch(es) or division(s) exist.

Telephone:

DISCONNECTED

Chief

ROBERT DENEHY, PRES

executive:

32

Employs:

CLEAR

History: SIC:

3861

2899

Line of business: Mfr photographic equipment, supplies & chemical preparations Financial Stress Class: 0

Credit Score Class: 0

This business's financial stress score of 0 means it is in open bankruptcy, has discontinued operating at this location or cannot be scored.

This business's credit score of 0 means it is in open bankruptcy, has discontinued operating at this location

or cannot be scored.

D&B Rating:

NQ Formerly

1R4

CREDIT CAPACITY SUMMARY

DDC000332

D&B Rating:NQ

NQ rating stands for Not Quoted. This is generally assigned when a business has been confirmed as no longer tive at the location, or when D&B is unable to confirm active operations. It may also appear on some branch orts, when the branch is located in the same city as the headquarters. For more information, see the D&B Kating Key.

of Employees Total:

PECIAL EVENTS

12/07/2001

On December 6, 2001 the telephone number has been disconnected with no new listing and neighbor indicated that business is no longer located at captioned address. According to DNB's Public Record Database there is an outstanding lien and judgement totaling \$15,804 and a dismissed Bankruptcy. Extent of additional unpaid debt if any, is undetermined.

Jump to:

Overview

Payments

Public Filings

History & Operations

Banking & Finance

Scores Dictusive

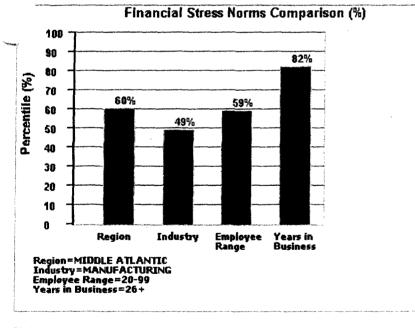
FINANCIAL STRESS SUMMARY

Based on information in D&B's data files, the FINANCIAL STRESS CLASS for this business is 0. This means the company is either OPEN BANKRUPTCY, DISCONTINUED OPERATING AT THIS LOCATION, or cannot be scored. See SPECIAL EVENTS for details.

Financial Stress Norms are provided in the next section to support your analysis of other accounts you may have with similar demographic characteristics as the subject company.

You may also wish to order full reports on these firms for a more thorough review of their risk profile.

There are no financial stress comments for this case.



Norms	National %
This Business	N/A
Region: MIDDLE ATLANTIC	60
Industry: MANUFACTURING	49
Employee Range: 20-99	59
Years in Business: 26 +	82

DDC000333

Notes:

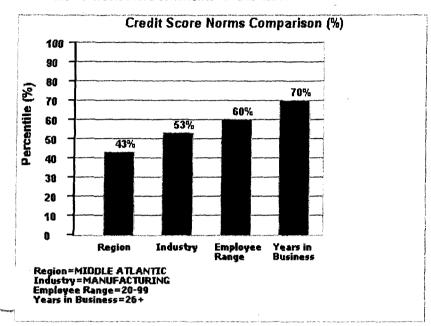
- Financial Stress statistics are derived using D&B's Stress Model. This model uses mathematical probabilities to determine the likelihood of a business experiencing financial stress within a twelve month period. Companies experiencing financial stress are those that terminate operations without paying all creditors in full, or reorganize or obtain relief from creditors under state or federal law.
- Based on 2001 failure statistics.
- Percentiles are based on a 100 point scale.
- The National Percentile reflects the relative ranking of a company among all scorable companies in D&B's

sed on information in D&B's data files, the CREDIT SCORE CLASS for this business is 0. This means the company ither OPEN BANKRUPTCY, DISCONTINUED OPERATING AT THIS LOCATION, or cannot be scored. See SPECIAL LVENTS for details.

Credit Score Norms are provided in the next section to support your analysis of other accounts you may have with similar demographic characteristics as the subject company.

You may also wish to order full reports on these firms for a more thorough review of their risk profile,

There are no credit score comments for this case.



Norms	National %
This Business	N/A
Region: MIDDLE ATLANTIC	43
Industry: MANUFACTURING	53
Employee Range: 20-99	60
Years in Business: 26+	70

Notes:

- Credit Score predicts the likelihood of a firm paying in a severely delinquent manner (90+ Days Past Terms) over the next twelve months. It was calculated using statistically valid models and the most recent payment information in D&B's files.
- Percentiles are based on a 100 point scale.
- The percentile ranks a firm relative to other businesses. For example, a typical company located in a specific geographic region that is in the 80th percentile nationwide is a better risk than 79% of the total population of scored companies in D&B's files.

Jump to:

Overview

Scores

Public Filings

History & Operations

Banking & Finance

Payments Miclusive

PAYMENTS

DDC000334

D&B has not received a sufficient sample of payment experiences to establish a PAYDEX score.

D&B receives nearly 400 million payment experiences each year. We enter these new and updated experiences into D&B Reports as this information is received. At this time, none of those experiences relate to this company.

ip to:

Overview

Scores

Payments

History & Operations

Banking & Finance

Public Filings

PUBLIC FILINGS

following data includes both open and closed filings found in D&B's database on the subject company.

Record Type	# of Records	Most Recent Filing Date
Bankruptcy Proceedings	1	08/29/1989
Judgments	1	09/14/2001
Liens	0	• •
Suits	2	09/30/2002
UCC's	3	01/22/2002

The following Public Filing data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

BANKRUPTCY FILINGS

Chapter Number:

11

Type: Status: VOLUNTARY DISMISSED

Bankrupt subject:

HELION INDUSTRIES INC, 681 MAIN ST, BELLEVILLE, NJ, 07109

Docket Number:

89-06685

Events:

10/03/1991 PLAN OF REORGANIZATION FILED

Total Assets: **Total Liabilities:** \$951,000 \$1,307,000

Trustee:

Robert Denehy, PRESIDENT

Where filed: Attorney:

U S BANKRUPTCY COURT, 50 WALNUT ST, 3RD FLOOR, NEWARK, NJ, 07102 HOWARD S GREENBERG, 101 EISENHOWER PARKWAY, ROSELAND, NJ, 07068

DANIEL J MOORE

.ate status attained:

Jate filed:

·dge:

10/21/1994

Latest Info Collected:

08/29/1989 01/25/1996

JUDGMENTS

Judgment award:

Status:

DOCKET NO.:

Unsatisfied DC-015410-2001

Judgment type:

Judgment

\$7,771

Against: In favor of: **HELION INDUSTRIES INC** BRENNTAG NORTHEAST, INC.

Where filed:

ESSEX COUNTY SPECIAL CIVIL COURT/SMALL CLAIMS COURT, NEWARK, NJ

Date status attained:

Date entered:

09/14/2001 09/14/2001

Latest Info Received:

09/25/2001

SUITS

Status:

Pending

nnc000335

DOCKET NO.: Plaintiff:

L 009683 02

BELLEVILLE INDUSTRIAL CENTER

Defendant:

HELION INDUSTRIES INC

Cause:

TORT - TOXIC

Where filed:

ESSEX COUNTY SUPERIOR COURT, NEWARK, NJ

e status attained:

atest Info Received:

Oate filed:

09/30/2002 09/30/2002 11/19/2002

Suit amount: Status:

\$8,033 **Pending**

DOCKET NO.:

DC-015410-2001

Plaintiff:

BRENNTAG NORTHEAST, INC.

D&B Comprehensive Report: HELION INDUSTRIES INC

Defendant:

HELION INDUSTRIES INC

^ause:

CONTRC-REG

ere filed:

ESSEX COUNTY SPECIAL CIVIL COURT/SMALL CLAIMS COURT, NEWARK, NJ

Date status attained:

07/30/2001 07/30/2001

Date filed: Latest Info Received:

08/07/2001

If it is indicated that there are defendants other than the report subject, the lawsuit may be an action to clear title to property and does not necessarily imply a claim for money against the subject.

UCC FILINGS

Collateral:

Inventory and proceeds - Accounts receivable and proceeds - Account(s) and

proceeds - General intangibles(s) and proceeds - and OTHERS

Type:

Sec. party: **Debtor:**

STEPHEN D. AYERS, LEONIA, NJ HELION INDUSTRIES, INC.

Filing number:

20838850

Filed with:

SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

Date filed:

01/22/2002

Latest Info Received:

02/27/2002

Collateral:

Specified Inventory including proceeds and products - Specified Accounts receivable including proceeds and products - Specified Account(s) including proceeds and products - Specified Business machinery/equipment including

proceeds and products - and OTHERS

Type:

Sec. party:

NATIONAL WESTMINSTER BANK NJ, JERSEY CITY, NJ

ካtor:

ng number: ned with:

1451050

SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

Date filed:

Latest Info Received:

04/23/1992 06/08/1992

Type:

Assianment

Sec. party:

NATIONAL WESTMINSTER BANK NJ, JERSEY CITY, NJ STEPHEN D. AYERS, LEONIA, NJ

Assignee: Debtor:

HELION INDUSTRIES, INC.

HELION INDUSTRIES INC

Filing number:

1451050

Filed with:

SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

Date filed:

Latest Info Received: Original UCC filed date:

07/27/1995 11/28/1995 04/23/1992

Original filing no.:

1451050

The public record items contained in this report may have been paid, terminated, vacated or released prior to the date this report was printed.

Jump to:

Overview

Scores

Payments

Public Filings

Banking & Finance

History & Operations

TORY & OPERATIONS

DDC000336

&B has researched this company and found no information available at this time.

Overview

Scores

Payments

Public Filings

History & Operations

anking & Finance د~

BANKING & FINANCE

D&B has researched this company and found no information available at this time.

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Report Printed: NOV 30 2005

Overview

BUSINESS SUMMARY

BELLEVILLE INDUSTRIAL CENTER INC 681 Main St Blg 43 Belleville, NJ 07109

D&B D-U-N-S Number:

07-514-0889

This is a single location.

Telephone:

973 751-0360

Fax:

973 751-3396

Chief executive:

LYNN CLURMAN, PRES

Year started:

1968

Management

1986

control:

6

Employs: History:

CLEAR

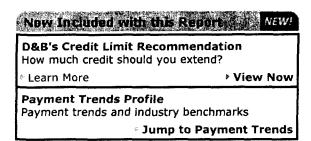
SIC:

6512

Line of business:

Nonresidential building

operator



Credit Score Class: 3

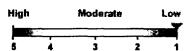
Moderate risk of severe payment delinquency over next 12 months

Moderate Low

Financial Stress Class: 1

High

Low risk of severe financial stress over the next 12 months



12-Month D&B PAYDEX®: 73

When weighted by dollar amount, payments to suppliers average 11 days beyond terms.



D&B Rating:

2R3

Number of employees:

2R is 1 to 9 employees.

Composite credit appraisal: 3 is fair.

M Kalusiva

EXECUTIVE SUMMARY

The **Financial Stress Class of 1** for this company shows that during the previous year, firms with this sification had a failure rate of 0.49% (49 per 10,000), which is lower than the national average.

The **Credit Score class of 3** for this company shows that during the previous year, 12.3% of the firms with this classification paid one or more bills severely delinquent, which is lower than the national average.

Predictive Scores	This Business	Comments				
Financial Stress Class	1	Failure Rate lower than the national average				
Financial Stress Score	1435	Highest Risk: 1,001; Lowest Risk: 1,850				
Credit Score Class	3	Probability of Severely Delinquent Payment is lower than the national average.				
Other Key Indicators						
PAYDEX Scores	11 days beyond terms	Pays more slowly than the average for its industry of generally within terms				
Industry Median	generally within terms	•				
Present management control	19 years					
UCC Filings	UCC filing(s) are not reported for this business					
Public Filings	Evidence of open suits only in the D&B database					
History	Is clear					

CREDIT CAPACITY SUMMARY

D&B Rating:

2R3

Number of employees:

2R indicates 1 to 9 employees.

Composite credit appraisal: 3 is fair.

The 1R and 2R ratings categories reflect company size based on the total number of employees for the business. They are assigned to business files that do not contain a current financial statement. In 1R and 2R Ratings, the 2, 3, or 4 creditworthiness indicator is based on analysis by D&B of public filings, trade payments, business age and other important factors. 2 is the highest Composite Credit Appraisal a company not supplying D&B with current financial information can receive. For more information, see the D&B Rating Key.

of Employees Total:

6 Payment Activity:

(based on 13 experiences)

Average High Credit: \$5,084 Highest Credit: \$15,000 Total Highest Credit: \$66,100

Jump to:

Overview | Payments

Public Filings

History & Operations

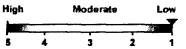
Banking & Finance

Scores Vixeusive

FINANCIAL STRESS SUMMARY

The Financial Stress Summary Model predicts the likelihood of a firm ceasing business without paying all creditors II, or reorganization or obtaining relief from creditors under state/federal law over the next 12 months. Scores 2 calculated using a statistically valid model derived from D&B's extensive data files.

Financial Stress Class: 1



DDC000318

Low risk of severe financial stress, such as a bankruptcy, over the next 12 months.

Incidence of Financial Stress

nong Businesses with this

Classification:

0.49% (49 per 10,000)

National Average

1.40% (140 per 10,000)

Financial Stress National Percentile: 52 (Highest Risk: 1; Lowest Risk: 100)

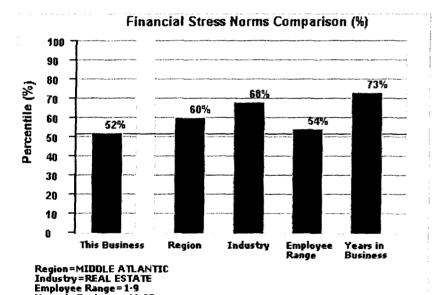
Financial Stress Score: 1435 (Highest Risk: 1,001; Lowest Risk: 1,850)

The Financial Stress Class of this business is based on the following factors:

- Evidence of open Suit(s) in D&B Database.
- 38% of trade experiences indicate slow payment(s) are present.
- · Business owns facilities.

Notes:

- The Financial Stress Class indicates that this firm shares some of the same business and financial characteristics of other companies with this classification. It does not mean the firm will necessarily experience financial stress.
- The Incidence of Financial Stress shows the percentage of firms in a given Class that discontinued operations over the past year with loss to creditors. The Incidence of Financial Stress National Average represents the national failure rate and is provided for comparative purposes.
- The Financial Stress National Percentile reflects the relative ranking of a company among all scorable companies in D&B's file.
- The Financial Stress Score offers a more precise measure of the level of risk than the Class and Percentile. It
 is especially helpful to customers using a scorecard approach to determining overall business performance.
- All Financial Stress Class, Percentile, Score and Incidence statistics are based on 2002.



Norms	National %
This Business	52
Region: MIDDLE ATLANTIC	60
Industry: REAL ESTATE	68
Employee Range: 1-9	54
Years in Business: 11-25	73

This business has a Financial Stress Percentile that shows:

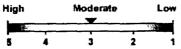
- Higher risk than other companies in the same region.
- Higher risk than other companies in the same industry.
- Higher risk than other companies in the same employee size range.
- Higher risk than other companies with a comparable number of years in business.

DDC000319

Years in Business = 11-25

The Credit Score class predicts the likelihood of a firm paying in a severely delinquent manner (90+ Days Past ms) over the next twelve months. It was calculated using statistically valid models and the most recent payment armation in D&B's files.

Credit Score Class: 3



Moderate risk of severe payment delinquency over next 12 months.

Incidence of Delinquent Payment

Among Companies with this Classification: 12.30%

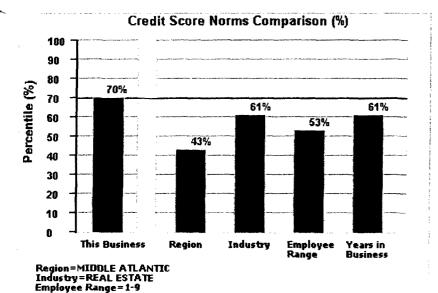
Credit Score Percentile: 70 (Highest Risk: 1; Lowest Risk: 100)

The Credit Score C'ass of this business is based on the following factors:

- 38% of trade experiences indicate slow payment(s) are present.
- Evidence of open suit(s) in the D&B database.

Notes:

- The Incidence of Delinquent Payment is the percentage of companies with this classification that were reported 90 days past due or more by creditors. The calculation of this value is based on an inquiry weighted sample.
- The Percentile ranks this firm relative to other businesses. For example, a firm in the 80th percentile has a lower risk of paying in a severely delinquent manner than 79% of all scorable companies in D&B's files.



Norms	National %
This Business	70
Region: MIDDLE ATLANTIC	43
Industry: REAL ESTATE	61
Employee Range: 1-9	53
Years in Business: 11-25	61

This business has a Credit Score Percentile that shows:

- Lower risk than other companies in the same region.
- Lower risk than other companies in the same industry.
- Lower risk than other companies in the same employee size range.
- Lower risk than other companies with a comparable number of years in business.

Jump to:

Overview | Scores | Public Filings | History & Operations | Banking & Finance

Payments Lixclusive

Years in Business=11-25

929260050

nnc000320

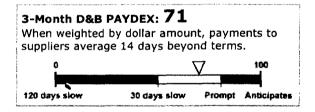
\YMENT TRENDS

Total Payment Experiences in D&B's File:	13	Current PAYDEX is:	73	equal to 11 days beyond terms
Payments Within Terms: (not dollar weighted)	82%	Industry Median is:	80	equal to generally within terms
Total Placed For Collection:	0	Payment Trend	<u> </u>	unchanged,
Average Highest Credit:	\$5,084	currently is:		compared to payments three months ago
Largest High Credit:	\$15,000	Indications of slowness can b		
Highest Now Owing:	\$2,500	merchandise, skipped invoice placed for collection even tho the debt is disputed.		
Highest Past Due:	\$1,000			

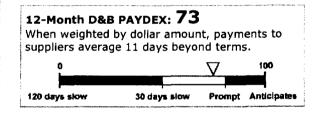
PAYDEX Scores

Shows the D&B PAYDEX scores as calculated on the most recent 3 months and 12 months of payment experiences.

The D&B PAYDEX is a unique, dollar weighted indicator of payment performance based on up to payment experiences as reported to D&B by trade references. A detailed explanation of how to read and interpret PAYDEX res can be found at the end of this report.



Based on payments collected over last 3 months.



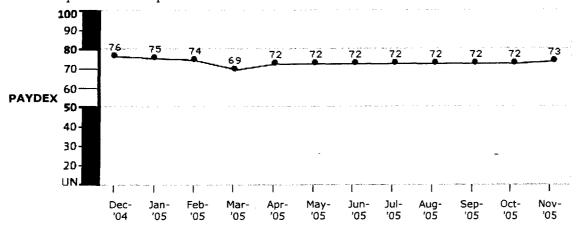
Based on payments collected over last 12 months.

PAYDEX Yearly Trend

12 Month PAYDEX Scores Comparison to Industry

	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05
This Business	76	75	74	69	72	72	72	72	72	72	72	73
Industry Quart	tiles											
Upper	80		-	80		*	80	:		80		1
Median	80			80	:	1	80			80		
Lower	75			75		·	75		***************************************	75		

ws the trend in D&B PAYDEX scoring over the past 12 months.



Last 12 Months

Based on payments collected over the last 12 months.

- Current PAYDEX for this Business is 73, or equal to 11 days beyond terms
- The 12-month high is 76, or equal to 6 days beyond terms
- The 12-month low is 69, or equal to 16 days beyond terms

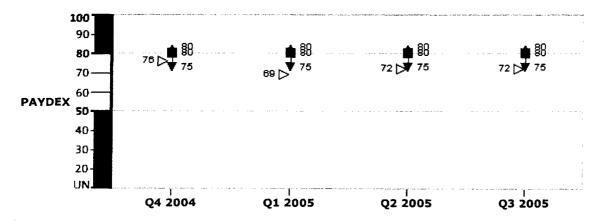
PAYDEX Comparison to Industry

ws PAYDEX scores of this Business compared to the Primary Industry from each of the last four quarters. The lary Industry is Nonresidential building operator, based on SIC code 6512.

Quarterly PAYDEX Scores Comparison to Industry

Previous Year									
	12/03	3/04	6/04	9/04					
This Business	73	73	79	76					
Industry Quartiles	5								
Upper	80	80	80	80					
Median	80	80	80	80					
Lower	76	76	76	75					

Current Year	y 11 - 1201201-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	12/04	3/05	6/05	9/05
This Business	76	69	72	72
Industry Quartiles	5			
Upper	80	80	80	80
Median	80	80	80	80
Lower	75	75	75	75



Last 12 Months

Based on payments collected over the last 4 quarters.

DDC000322

Score Comparison Key:

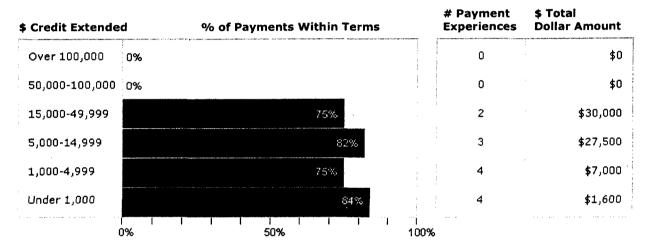
▶ This Business

▲ Industry upper quartile

- Industry median
- ▼ Industry lower quartile
- Current PAYDEX for this Business is 73, or equal to 11 days beyond terms
- The present industry median score is 80, or equal to generally within terms.
- Industry upper quartile represents the performance of the payers in the 75th percentile
- Industry lower quartile represents the performance of the payers in the 25th percentile

Payment Habits

For all payment experiences within a given amount of credit extended, shows the percent that this Business paid within terms. Provides number of experiences used to calculate the percentage, and the total dollar value of the credit extended,



Based on payments collected over the last 12 months.

Payment experiences reflect how bills are met in relation to the terms granted. In some instances, payment beyond terms can be the result of disputes over merchandise, skipped invoices, etc.

PAYMENT SUMMARY

The Payment Summary section reflects payment information in D&B's file as of the date of this report.

There are 13 payment experiences in D&B's file for the most recent 12 months, with 10 experiences reported during the last three month period.

Below is an overview of the company's dollar-weighted payments, segmented by its suppliers' primary industries:

	Total Rcv'd (#)	Total Dollar Amts (\$)	Largest High Credit (\$)	Within Terms (%)		Days S 31-60 6 (%)	1-90 90	0>
Top industries:								
Nonclassified	5	37,500	15,000	77	23	0	0 :	0
ort-trm busn credit	2	25,000	15,000	80	20	0	0	0
ephone communictns	2	1,100	1,000	100	0 -	0	0	° DDC000323
Air courier service	1	1,000	1,000	50	50	0	0 :	0 000000323
Management services	1	750	750	100	0	0 =	0 :	0 *
Whol office supplies	1	500	500	50	0	50	0	0
Misc business service	1	250	250	100	0	0	0	0

Cash experiences	0	0	0
yment record unknown	0	0	0
onfavorable comments	0	0	0
Placed for collections:			
With D&B	0	0	0
Other	0	N/A	0
Total in D&B's file	13		15,000

The highest Now Owes on file is \$2,500 The highest Past Due on file is \$1,000

Accounts are sometimes placed for collection even though the existence or amount of the debt is disputed. Indications of slowness can be result of dispute over merchandise, skipped invoices, etc.

PAYMENT DETAILS

Detailed payment history

Date Reported (mm/yy)	Paying Record	High Credit (\$)	Now Owes (\$)	Past Due (\$)	Selling Terms	Last Sale Within (months)
10/05	Ppt	10,000	500	0	and the second section of the second section of the second section sec	1 mo
	Ppt	7,500	0	0		1 mo
	Ppt	2,500	100	0		1 mo
	Ppt	1,000	750	0		1 mo
	Ppt	250	250	0 ,		1 mo
	Ppt-Slow 30	15,000	250	0 ,		1 mo
	Ppt-Slow 30	10,000	0	0		1 mo
	Ppt-Slow 30	2,500	2,500	1,000		1 mo
09/05	Ppt	100	100	0		1 mo
	Ppt-Slow 30	1,000	1,000	250		1 mo
02/05	Ppt	750	0	0 -		2-3 mos
01/05	Ppt-Slow 60	500	250	0	N30	1 mo
10/04	Ppt	15,000	0	0		1 mo

Each experience shown is from a separate supplier. Updated trade experiences replace those previously reported.

Jump to:

Overview | Scores | Payments | History & Operations | Banking & Finance

Public Filings

PUBLIC FILINGS

The following data includes both open and closed filings found in D&B's database on the subject company.

lecords Most Recent Filing Dat	e
0 -	
0 -	
0 -	
2 05/04/2005	
0 -	
DDC00(324
	05/04/2005 0 -

The following Public Filing data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

SUITS

Status: **DOCKET NO.:** Plaintiff:

Pending L 003646 05

RACHELLE TUCCI BELLEVILLE INDUSTRIAL CENTER AND OTHERS Defendant:

PERSONAL INJURY Cause:

Where filed:

ESSEX COUNTY SUPERIOR COURT, NEWARK, NJ

Date status attained:

05/04/2005 Date filed: 05/04/2005 Latest Info Received: 09/26/2005

Suit amount:

\$3,506 Pending

Status: **DOCKET NO.:**

DC-023618-2001

Plaintiff:

PUBLIC SERVICE ELECTRIC & GAS BELLEVILLE INDUSTRIAL CENTER

Defendant: Cause:

CONTRC-REG

Where filed:

ESSEX COUNTY SPECIAL CIVIL COURT/SMALL CLAIMS COURT, NEWARK, NJ

Date status attained: Date filed:

11/13/2001 11/13/2001 05/21/2002

Latest Info Received:

If it is indicated that there are defendants other than the report subject, the lawsuit may be an action to clear title to property and does not necessarily imply a claim for money against the subject.

The public record items contained in this report may have been paid, terminated, vacated or released prior to the date this report was printed.

GOVERNMENT ACTIVITY

Activity summary

Borrower (Dir/Guar): NO Administrative debt: NO Contractor: NO Grantee: NO Party excluded from federal program(s): NO

Possible candidate for socio-economic program consideration

Labor surplus area:

N/A

Small Business:

YES (2005)

8(A) firm:

N/A

The details provided in the Government Activity section are as reported to Dun & Bradstreet by the federal government and other sources.

Jump to:

Overview

Scores

Payments

Public Filings

Banking & Finance

History & Operations

HISTORY

following information was reported 03/01/2005:

DDC000325

Officer(s):

LYNN CLURMAN, PRES

DIRECTOR(S): THE OFFICER(S)

Business started 1968 by Abraham Ellis. Present control succeeded 1986, 100% of capital stock is owned by Lynn Clurman.

NN CLURMAN. OCCUPATIONAL BACKGROUND: 1986-present active here.

BUSINESS REGISTRATION

CORPORATE AND BUSINESS REGISTRATIONS PROVIDED BY MANAGEMENT OR OTHER SOURCE

The Corporate Details provided below may have been submitted by the management of the subject business and may not have been verified with the government agency which records such data.

Registered Name:

BELLEVILLE INDUSTRIAL CENTER INC

Business type:

CORPORATION

Common stock

Par value:

Corporation type:

PROFIT

Authorized shares:

1,000

NO PAR VALUE

Date incorporated:

JUN 06 1968

State of incorporation:

NEW JERSEY

Where filed:

Secretary of State, Trenton, NJ

OPERATIONS

03/01/2005

Description:

Nonresidential building operator (100%).

Terms are net 30 days. Has 40 account(s). Sells to manufacturers. Territory: Local.

Nonseasonal.

Employees:

6 which includes officer(s).

Facilities:

Owns 35,000 sq. ft. in building.

Location:

Industrial section on main street. Business located at address shown above.

SIC & NAICS

SIC:

Based on information in our file, D&B has assigned this company an extended 8-digit SIC. D&B's use of 8-digit SICs enables us to be more specific to a company's operations than if we use the standard 4-digit code.

The 4-digit SIC numbers link to the description on the Occupational Safety & Health Administration (OSHA) Web site. Links open in a new browser window.

65120100

Commercial and industrial building operation

NAICS:

Lessors of Nonresidential Buildings 531120 (except Miniwarehouses)

DDC000326

Jump to:

Overview

Scores

Payments

Public Filings

History & Operations

Banking & Finance

KEY BUSINESS RATIOS

D&B has been unable to obtain sufficient financial information from this company to calculate business ratios. Our ck of additional outside sources also found no information available on its financial performance.

nelp you in this instance, ratios for other firms in the same industry are provided below to support your analysis of this business.

Based on this number of establishments: 40

Industry Norms based on 40 establishments

W 1811	This Business		Industry Quartile
Profitability			
Return on Sales	UN	10.5	UN
Return on Net Worth	UN	4.9	UN
Short-Term Solvency			
Current Ratio	UN	1.9	UN
Quick Ratio	UN	1.2	UN
Efficiency			
Assets Sales	UN	308.0	UN
Sales / Net Working Capital	UN	4.5	UN
Utilization			•
Total Liabs / Net Worth	UN	60.1	UN

UN = Unavailable

NANCE

03/01/2005

Sources contacted verified information on February 23, 2005.

CUSTOMER SERVICE

If you have questions about this report, please call our Customer Resource Center at 1.800.234.3867 from anywhere within the U.S. If you are outside the U.S. contact your local D&B office.

*** Additional Decision Support Available ***

Additional D&B products, monitoring services and specialized investigations are available to help you evaluate this company or its industry. Call Dun & Bradstreet's Customer Resource Center at 1.800.234.3867 from anywhere within the U.S. or visit our website at www.dnb.com.

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20000327

`oose a company from the list of 25 below:

the company you select is a branch location:

Save my preference

(h	e company you select is a branch location:		Cave my prototonee
•	Get Headquarters report instead	port Get bo	th Headquarters and Branch reports
	Company Name / Address	Location Type	Get Comprehensive Report
	(click below to order other D&B products for this business) BELLEVILLE, TOWNSHIP OF	Headquarters	GET REPORT
③	152 Washington Ave, Belleville, NJ, 071092589		Comprehensive Report
\circ	SPYLEN OF BELLEVILLE, INC	Headquarters	GETREPORT
-	1534 Route 23, Wayne, NJ, 074707506		Comprehensive Report
0	TOWNSHIP OF BELLEVILLE BOARD OF EDUCATION 102 Passaic Ave, Belleville, NJ, 071091807	Headquarters	Comprehensive Report
\bigcirc	BELLEVILLE INDUSTRIAL CENTER INC	Single	GET REPORT
\mathcal{O}	681 Main St Ste 43, Belleville, NJ, 071093404		Comprehensive Report
\circ	BELLEVILLE CORP 328 Belleville Tpke, Kearny, NJ, 070323801	Single	GET REPORT Comprehensive Report
	BELLEVILLE INDUSTRIAL PROPERTI	Single	GET REPORT
\circ	141 Lanza Ave, Garfield, NJ, 070263538	, , , , , , , , , , , , , , , , , , ,	Comprehensive Report
0	BELLEVILLE MAINTENANCE IN	Single	GET REPORT
	66 Mohr Ave, Bloomfield, NJ, 070034129		Comprehensive Report
\bigcirc	BELLEVILLE ASSOCIATES 237 South St, Morristown, NJ, 079606098	Single	GET REPORT
~	BELLEVILLE CONSTRUCTION	Single	Comprehensive Report GET REPORT
0	84 Dorothea TER, Belleville, NJ, 071091516	J	Comprehensive Report
	BELLEVILLE FLORIST LTD LLC	Single	GET REPORT
	9 Visco Dr, Edison, NJ, 088201273		Comprehensive Report
\bigcirc	BELLEVILLE CAB CO INC 73 Washington Ave, Belleville, NJ, 071092929	Single	GET REPORT
\sim	BELLEVILLE SCALE COMPANY	Single	Comprehensive Report GET REPORT
\circ	50 S Center St, Orange, NJ, 070503529	J.ing.t	Comprehensive Report
\bigcirc	BELLEVILLE PIKE LLC	Single	GET REPORT
	265 Ferry St, Newark, NJ, 071053217		Comprehensive Report
\circ	BELLEVILLE CAR SERVICE 73 Washington St # 79, Belleville, NJ, 071092918	Single	GET REPORT Comprehensive Report
\bigcirc	BELLEVILLE APARTMENTS ASSOCIATES LLC	Single	GET REPORT
\/	Unknown, Summit, NJ, 07902		Comprehensive Report
\bigcirc	BELLEVILLE CHIROPRACTIC CENTER 387 Union Ave, Belleville, NJ, 071092173	Single	GET REPORT
	BELLEVILLE HIGH SCHOOL	Single	Comprehensive Report
\circ	100 Passaic Ave, Belleville, NJ, 071091807	Single	GET REPORT Comprehensive Report
0	BELLEVILLE SCHOOL DISTRICT	Single	GET REPORT
	20 Passaic Ave, Belleville, NJ, 071091864		Comprehensive Report
\bigcirc	BELLEVILLE PLAZA TRAVEL INC 23 Weiss Dr, Towaco, NJ, 070821512	Single	GET REPORT
0	BELLEVILLE BUILDING MATERIALS INC	Single	Comprehensive Report GET REPORT
101	528 Joralemon St, Belleville, NJ, 071091844	y	Comprehensive Report
\bigcirc	BELLEVILLE MOTOR LODGE	Single	GET REPORT
	371 Washington Ave, Belleville, NJ, 071093250	0328	Comprehensive Report
	15 Arthur St, Belleville, NJ, 071091722	Single	GET REPORT
\bigcirc	BELLEVILLE REFORMED CHURCH	Single	Comprehensive Report GET REPORT
	169 Main St # 175, Belleville, NJ, 071093109	- · · U ·	Comprehensive Report
\bigcirc	APOSTOLIC CHURCH OF BELLEVILLE 77 Wallace St, Belleville, NJ, 071093543	Single	GET REPORT
\sim	BELLEVILLE WIRE CLOTH CO INC	Single	Comprehensive Report
U.	THE THE PARTY OF T	Oiligio	GET REPORT

18 Rutgers Ave, Cedar Grove, NJ, 070091444

the company you select is a branch location:

Comprehensive Report
Save my preference

PRELIMINARY ASSESSMENT REPORT

BUILDINGS 4A, 6B, FAZ, F2A, T4, T7, 18, 22 463 23
BUILDINGS 4A, 6B, FAZ, F2A, T4, T7, 18, 22 463 23
BUILDINGS 4A, 6B, FAZ, F2A, T4, T7, 18, 22 463 23
BUILDINGS 4A, 6B, FAZ, F2A, T4, T7, 18, 22 463 23
BUILDINGS FRANCES

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New Jersey Department of Environmental Protection Site Remediation Program

PRELIMINARY ASSESSMENT REPORT

This form has been created to assist in completing a Preliminary Assessment in accordance with the Technical Requirements for Site Remediation, N.J.A.C. 7:26E. It must be completed in detail and supplemented with narratives where directed. This form takes the Preliminary Assessment requirements of the Technical Rules and puts them into a question and answer format. It is the foundation for completing an environmental investigation of a site as a means towards obtaining a no-further-action approval from the Department; as well as a means toward meeting the minimum requirements of the due diligence requirements of the innocent purchaser defense as defined by N.J.S.A. 58:10-23.11g

INFORMATION IN THE REPORT SHALL BE USED AS THE INITIAL BASIS FOR ASSESSING POTENTIAL ENVIRONMENTAL CONCERNS. THIS FORM MUST BE CERTIFIED IN ACCORDANCE WITH N.J.A.C. 7:26E-1.5. SUBMIT ONE ORIGINAL CERTIFIED COPY OF THIS FORM UNLESS IT IS ACCOMPANIED BY A SITE INVESTIGATION REPORT AND A PROPOSED REMEDIAL INVESTIGATION WORKPLAN IN WHICH CASE 3 COPIES SHALL BE SUBMITTED.

This form should be used as a foundation for completing a preliminary assessment report in accordance with N.J.A.C.7:26E, the Technical Requirements for Site Remediation, subchapter 3.1 and 3.2. The purpose of a preliminary assessment is to identify the presence of any potentially contaminated areas of concern. And if the information gathered to complete this form identifies and potentially contaminated areas of concern, then there is a need to complete a site investigation pursuant to N.J.A.C. 7:26E-3.3 through 3.13. If this is the case, then continue with the remedial activities and submit the preliminary assessment report with a complete site investigation report and a proposal based on the findings of the site investigation.

The Department will accept mimeograph copies or computer-generated copies of this form provided the copies are legible and all questions listed on this form are included.

The application must be notarized.

777

Should you encounter any problem in completing this form, we recommend that you discuss the matter with your assigned Case Manager for active cases or a representative from the Department if completing the form in anticipation of a future submittal to the NJDEP. Submitting incorrect or insufficient data may cause processing delays and possible postponement of your transaction.

Please call (609) 633-0708 or your assigned case manager between the hours of 8:30 a.m. and 4:30 p.m. to request assistance.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION P.O. Box 435, TRENTON, NJ 08625-0435

PRELIMINARY ASSESSMENT REPORT

Answer all questions. Should you encounter any problems in completing this form, we recommend that you discuss the matter with a representative from the Site Remediation Program. Submitting incorrect or insufficient data may cause processing delays and possible postponement of your transaction

Date:10	February 2003
lustries, Inc.	200 A 200 CO A 200 C
2A, 14, 17, 18, 22 and 2	3)
Zip Code <u>07109</u>	
County <u>Essex</u>	
fication NumberIS	RA: 20010286
ed as farmland in acco	
From	То
Early –1900s	1970
1970	Present
From	То
Early -1900s	1970
1975	2001
	fication Number IS industrial establishment ed as farmland in according to the state of the stat

- 2A. In accordance with N.J.A.C. 7:26E-3.1(c)1.ii, provide a clear and concise description of the past industrial/commercial operation(s) conducted on site by each owner and operator. To the extent available the site history shall include an evaluation of the following sources of information:
 - (1) Sanborn Fire Insurance Maps; (2) MacRae's Industrial Directory; (3) Title and Deed; (4) Site plans and facility as-built drawings; (5) federal, state, county and local government files; (6) The Department Geographic Information System. (7) and any additional sources which may be available for a specific site.

Site history is frequently an item where preliminary assessments are incomplete. The Industrial Site Recovery Act requires that a diligent inquiry be made, researching the site history back to January 1, 1932. Common answers to this question have included: "Unknown", or "We are only a tenant on the site and have no knowledge of prior site history". Neither of these answers satisfies the requirement for a due diligent inquiry.

To avoid having a PA found incomplete by the Department due to insufficient information, the site history must be researched. The following are ways of obtaining information regarding site history: title searches; contacting the local and county health officials and municipal agencies (for example, local fire and police departments, and local planning, zoning, adjustment boards) requesting any information these public agencies may have on the specific location; and, interviewing long time neighbors of the industrial establishment. Tenants should always request information from the landlord. The applicant should always document any attempts to locate this information to support a claim that a diligent inquiry has been conducted. If the prior site history demonstrates that the current building was built on vacant unimproved property, it should be reported as such. If the site has been, or is now the subject of a site remediation, any prior cases should always be referenced.

Provide the page or appendix number where the site history may be found. See Appendix A

Provide a listing of the resources utilized to compile the site history and as appropriate copies of any maps or information, which will assist the Department in evaluating your conclusions.

Name of Resource	Date of document reviewed	Appendix # if providing copies
Sanborn Fire Insurance Maps	1906, 1938, 1950, 1968	Appendix A
State and Federal Government Database Search	11/1/02	Appendix A
Community Right To Know Records		Appendix A
Local and State Government Files		Appendix A

2B. Include a detailed description of the most recent operations subject to this preliminary assessment

Provide	the page or appendix #	where the description	of the most recen	t operations may be
found.	See Appendix B			

3. Hazardous Substance/Waste Inventory: N.J.A.C. 7;26E-3.1(c)1.iii. List <u>all</u> raw materials, finished- products, formulations and hazardous substances, hazardous wastes, hazardous constituents and pollutants, including intermediates and by-products that <u>are or were historically present</u> on the site. Note: If past usage included farming, pesticides may be a concern and should be included in this list. (attach additional sheets if necessary).

Material Name	CAS # if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
See Appendix C			

4 A. In accordance with N.J.A.C. 7:26E-3.1(c)1iv provide a summary of all <u>current and historic</u> wastewater discharges of Sanitary and/or Industrial Waste and/or sanitary sludges. Present and past production processes, including dates, and their respective water use shall be identified and evaluated, including ultimate and potential discharge and disposal points and how and where materials are or were received on-site. All discharge and disposal points shall be clearly depicted on a scaled site map.

Discharge Period		Discharge Type	Discharge Location
From	То		
1975	2001	Sanitary, Storm, Process	Passaic Valley Sewage Commissioners

4B. Provide a narrative of disposal processes for all <u>historic and current</u> process waste streams and disposal points. (attach additional sheets if necessary)

See Appendix D	

5. This question requires the applicant to conduct a diligent inquiry into the current and historic operations at the site to identify all of the potential areas of concern, which formerly or currently exists at the industrial establishment as defined in N.J.A.C. 7:26E-1.8.

Diligent inquiry as defined in N.J.A.C.7:26E-1.8 states:

- A. Conducting a diligent search of all documents which are reasonably likely to contain information related to the object of the inquiry, which documents are in such person's possession, custody or control, or in the possession, custody or control of any other person from whom the person conducting the search has a legal right to obtain such documents; and
- B. Making reasonable inquiries of current and former employees and agents whose duties include or included any responsibility for hazardous substances, hazardous wastes, hazardous constituents, or pollutants, and any other current and former employees or agents who may have knowledge or documents relevant to the inquiry.

In accordance with N.J.A.C. 7:26E3.1(c)1.v., a narrative shall be provided for each area of environmental concern describing the (A) Type; (B) Age; (C) Dimensions of each container/area; (D) Chemical Content; (E) Volume; (F) Construction materials; (G) Location; (H) Integrity (i.e., tank test reports, description of drum storage pad); and (I) inventory control records, unless a Department-approved leak detection system, pursuant to N.J.A.C. 7:1E or 7:14B, has always been in place and there is no discharge history. If sampling is not proposed for any identified area of environmental concern, please explain why it is believed that the area of environmental concern does not contain contaminants above the applicable remediation standards. Submit all necessary documentation to verify this belief. The required narrative need not describe the sampling to be completed; however, it should state that sampling will be completed in accordance with the appropriate section of N.J.A.C.7:26E. Detailed descriptions of all remediation activities shall be described in the site investigation report in accordance with N.J.A.C.7:26E-3.13. Note: If the industrial establishment has multiple locations for one type of area of concern (example: underground storage tanks are located in 3 separate areas of the facility), each area must be discussed separately.

Please indicate if any of the potential areas of environmental concern listed below in #5A through #5G, as defined in N.J.A.C. 7:26E-1.8, formerly or currently exist at the industrial establishment by indicating Yes or No in the appropriate space as provided.

For the Location Reference Keyed to Site Map, use either a number or letter identification and be consistent throughout each phase of the remediation, referring to the same identification provided herein.

Provide the required narrative as an appendix to this report. Do not try to provide a narrative in the space provided

I hereby certify that a diligent inquiry has been conducted to identify all current and historical potential areas of environmental concern and based on the diligent inquiry the areas of environmental concern identified below in question 5A through 5G are the only areas of environmental concern believed to exist at the above referenced industrial establishment.

A. Bulk Storage Tanks and Appurtenances, including, without limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Aboveground Storage Tanks and Associated Piping	Yes	AOC #1	Appendix E
Underground Storage Tanks and Associated Piping	No	Not Applicable	Not Applicable
Silos	No	Not Applicable	Not Applicable
Rail Cars	No	Not Applicable	Not Applicable
Loading and unloading areas	No	Not Applicable	Not Applicable
Piping, above ground and below ground pumping stations, sumps and pits	No	Not Applicable	Not Applicable

B. Storage and Staging Areas, including

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Storage pads including drum and/or waste storage	No	Not Applicable	Not Applicable
Surface impoundments and lagoons	No	Not Applicable	Not Applicable
Dumpsters	No	Not Applicable	Not Applicable
Chemical storage cabinets or closets	No	Not Applicable	Not Applicable

C. Drainage systems and areas including without limitation

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Floor drains, trenches and piping and sumps	Yes	AOC #2	Appendix E
Process area sinks and piping which receive process waste	Yes	AOC #3	Appendix E
Roof leaders when process operations vent to the roof	No	Not Applicable	Not Applicable
Drainage swales & culverts	No	Not Applicable	Not Applicable
Storm sewer collection systems	Yes	See AOC #2	Appendix E
Storm water detention ponds and fire ponds	No	Not Applicable	Not Applicable
Surface water bodies	No	Not Applicable	Not Applicable
Septic systems leachfields or seepage pits	No	Not Applicable	Not Applicable
Drywells and sumps	No	Not Applicable	Not Applicable

D. Discharge and disposal areas, including, without limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Areas of discharge per N.J.A.C. 7:1E	No	Not Applicable	Not Applicable
Waste piles as defined by N.J.A.C 7:26	No	Not Applicable	Not Applicable
Waste water collection systems including septic systems, seepage pits, & dry wells.	Yes	See AOC #2	Appendix E

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Landfills or landfarms	No	Not Applicable	Not Applicable
Sprayfields	No	Not Applicable	Not Applicable
Incinerators	No	Not Applicable	Not Applicable
Historic Fill or any other Fill material	No	Not Applicable	Not Applicable
Open Pipe discharges	No	Not Applicable	Not Applicable

E. Other areas of concern, including, without limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Electrical Transformers & Capacitors	No	Not Applicable	Not Applicable
Hazardous material storage or handling areas	Yes	AOC #4	Appendix E
Waste Treatment areas	No	Not Applicable	Not Applicable
Discolored or spill areas	No	Not Applicable	Not Applicable
Open areas away from production areas	No	Not Applicable	Not Applicable
Areas of stressed vegetation	No	Not Applicable	Not Applicable
Underground piping including industrial process sewers	Yes	See AOC #2	Appendix E
Compressor vent discharges	No	Not Applicable	Not Applicable
Non-contact cooling water discharges	No	Not Applicable	Not Applicable
Areas which receive flood or storm water from potentially contaminated areas	No	Not Applicable	Not Applicable
Active or Inactive production wells	No	Not Applicable	Not Applicable

F. Building interior areas with a potential for discharge to the environment, including, without limitation:

Area of Concern	Currently or Formerly Exists at the Site Yes/No	Location Referenced to the Site Map	Appendix Number
Loading or Transfer areas	Yes	AOC #5	Appendix E
Waste Treatment areas	No	Not Applicable	Not Applicable
Boiler rooms	No	Not Applicable	Not Applicable
Air vents and ducts	No	Not Applicable	Not Applicable
Hazardous material storage or handling areas	Yes	See AOC #4	Appendix E

G.	Anv	other	site-si	pecific	area	of	concern.
•.	\sim 117	Othici	3165-3	PCCITIC	aı ça	$\mathbf{v}_{\mathbf{i}}$	COHCCIII

Currently or		Location		
Area of Concern	Formerly Exists at the Site Yes/No	Referenced to the Site Map	Appendix Number	
Not Applicable	-	-		

6	If the site area exceeds two acres, an interpretation of the aerial photographic history of the site
	shall be submitted in accordance with N.J.A.C. 7:26E-3.1(c)1.vi. The interpretation shall be
	based on available current and historical color, black and white and infrared aerial photographs
	(scale 1:18,000 or less) of the site and surrounding area at a frequency that provides the
	evaluator with a historical perspective of site activities. The photographic history shall date back
	to 1932 or the earliest photograph available. Aerial photographs are available for review at the
	New Jersey Department of Environmental Protection, Tidelands Management Program, Aerial
	Photo Library, 9 Ewing Street, Trenton, New Jersey, (609) 633-7369. Note, the applicant is not
	required to provide the Department with copies of the aerial photographs reviewed only an
	interpretation of what was observed in each photograph, which may represent an environmental
	concern.

X Check here if an aerial photo review was not complete and provide a reason.

An aerial photographic interpretation was not complete	ed since the Helion Industries, In
leasehold was less than 2 acres in size and all operations w	vere held within its leased buildings.
•	
Provide the appendix number for the air photo review narrat	ives
Discharge History of Hazardous Substances and Wastes, N	I.J.A.C. 7:26E-3.1(c)1vii:
A. Have there been any known discharges of hazardous su	ibstances and wastes at the site?
X No (Go to question #8)Yes (Complete Iten	ns 7B & 7C)
3. Was the Department notified of the discharge?	
Yes; No	
f yes, provide the Case #	DDC000201

	C. Was a no-further-action letter, negative-declaration approval or full-compliance letter issued as a result of the cleanup of this discharge?
	Yes (Submit a copy of the no-further-action approval)
	No
8	In accordance with N.J.A.C.7:26E-3.1 (c) 1.vii, provide a description of any remediation activities previously conducted or currently underway at the site, including dates of discharges, remedial actions taken, and all existing sample results concerning contaminants which remain at the site. Copies of Department or other governmental agency no-further-action approvals should also be provided with a description of the areas to which the no-further-action approvals apply. This information is especially important if the approval was granted for the remediation of a portion of a site or a specific discharge event rather than the entire site subject to this preliminary assessment.
	X Check here if this question does not apply.
	Provide the appendix number for the required narrative and data summary
9.	Protectiveness of past remedies, Order of Magnitude Analysis, N.J.A.C. 7:26E-3.1(c) 1.ix & N.J.A.C. 7:26E, 3.2(a)5
	A. Have any areas of concern previously received a No-Further-Action approval from the Department or other equivalent government agency for which no additional remediation is proposed?
	B. In accordance with N.J.S.A 58:10B-13(e) the following evaluation of the protectiveness of past remedies shall be completed for all areas of concern for which no further action was previously approved by the Department or other equivalent government agency and for which no additional remediation is proposed. All final sampling results shall be evaluated to determine if contaminant levels remaining on site are in compliance with current remediation criteria. The applicant shall complete the following:
	Include a table comparing the levels of contaminants remaining in each area of concern, the numerical remediation standard approved in the remedial action workplan or at the time of no-further-action approval and the numerical remediation standards applicable at the time of the comparison. The table shall contain all sampling results, including sample location, sample media, field and laboratory identification numbers, and method detection limits, as necessary, and analytical results for all individual contaminants for each area of concern.
comple	by certify that the order of magnitude analysis required pursuant to N.J.A.C. 7:26E has been eted, since the issuance of a No-Further-Action approval, negative declaration approval or lent remediation approval; and (Check the appropriate statements (1), (2), (3) or (4))

remediation standard applicable at the time of the comparison, however no further action is required because: (check the appropriate sub statement)				
below are less than an order of m	(a) The contaminant concentrations remaining in the areas of concern listed below are less than an order of magnitude (factor of 10) greater than the numerical remediation standard applicable at the time of the comparison;			
	or the site was remediated using engineering and e Department and these controls are still protective onment; or			
	the site was remediated to an approved site specific factors and assumptions which are the basis for standard remain valid for the site.			
Please list the areas of concern for which the previou	s statement applies.			
Area of Concern	Location Reference Keyed to the Site Map			
	(2) The areas of concern listed below contain contaminants above the numerical remediation standard applicable at the time of the comparison and further remediation is required			
because: (check the appropriate sub statem				
(a) The contaminant concentrations remaining in the areas of concern listed below are more than an order of magnitude (factor of 10) greater than the numerical remediation standard applicable at the time of the comparison;				
(b) The areas of concern or the site was remediated using engineering and institutional controls approved by the Department and these controls are no longer protective of public health, safety and the environment; or				
institutional controls approved by the	ne Department and these controls are no longer			

Please list the areas of concern for which the pr	evious statement applies.
---	---------------------------

	Area of Concern	Location Reference Keyed to the Site Map
		Aur
•		

(3) ___ The areas of concern listed below do not contain contaminants above the numerical remediation standard applicable at the time of the comparison and no further remediation is required.

Please list the areas of concern for which the previous statement applies.

Area of Concern	Location Reference Keyed to the Site Map
A. A	

(4).___The contaminant concentrations remaining in the below listed areas of concern are more than an order of magnitude greater than the numerical remediation standard applicable at the time of the comparison. However, no further remediation is required by the person conducting this preliminary assessment, because, in accordance with N.J.S.A. 58:10B13(e), that person is not liable for the contamination pursuant to N.J.S.A. 58:10-23.11g

Please list the areas of concern for which the previous statement applies.

Area of Concern	Location Reference Keyed to the Site Map

	Area of Concern	Location Reference Keyed to the Site M
10	Historical Data on environmental quality at the	Industrial Establishment
	A. Have any previous sampling results doc Establishment not received a no further actio approval by the Department? (N.J.A.C. 7:26E-3	n approval from the Department or been de
	Yes (See Appendix #	No (Go to 11)
	B. Have there been any known changes in si completion of previous sampling or remediation part of this application, please explain below (N	n? If sampling results were obtained, but are
11	List all federal, state and local environmenta previous and current owners or operators, applif necessary).	
	Check here if no permits are involved	_
	A. New Jersey Air Pollution Control	

Permit Number	Expiration Date	Type of Permitted Unit
109113*	Unknown	Unknown
102621*	Unknown	Unknown
108958*	Unknown	Unknown

^{*}Identified during due diligence in Passaic Valley Sewage Commissioners documentation (see Appendix A). No information was provided by the NJDEP through the filed OPRA request. No additional information is available at this time.

Size of Ta	ink (Gallons)	Tank Co	ntents
		-	
C. New Jersey I	Pollutant Discharge Elimina	tion System (NJPDES) Permit	
Permit Number	Discharge Type	Discharge Location Keyed to Site map	Expiration Date
F. In accordanc	ermits for all previous an	c) xii, list all other federal, s id current owners or operat	
(1) Nam	e and address of the permi	tting agency	
	reason for the permit		
	permit identification number application date		
• •	date of approval, denial or s	status of the application	
• •	name and current address	•	
	reason for the denial, revoc permit expiration date	ation or suspension if applicat	ole
; received	Check here if no of for this site.	ther environmental permits we	re applied for or
Provide t		red listing if other environment	al permits exist for this
			DC000206

(inc	accordance with N.J.A.C. 7:26E-3.1(c)xiii, provide a summary of enforcement actions sluding but not limited to, Notice of Violations, Court Orders, official notices or directives) for ations of environmental laws or regulations (attach additional sheets if necessary):
A.	Check here if no enforcement actions are involvedX (Go to 13 otherwise complete 12B)
B.	(1) Name and address of agency that initiated the enforcement action
(2)	Date of the enforcement action
(3)	Section of statute, rule or permit allegedly violated
(4)	Type of enforcement
(5)	Description of the violation
(6)	How was the violation resolved?
In a	ccordance with N.J.A.C. 7:26E-3.1(c) xiv, please provide a narrative description of all arease provide and provide a narrative description of all arease provide and provi

DDC000207

of the site, including the dates of emplacement.

This question is not applicable to this industrial establishment as this is a former leasehold.

- 14. A. In accordance with N.J.A.C. 7:26E-3.2(a) 3.i, submit a scaled site plan, detailing the subject lot and block, property and or leasehold boundaries, location of current and former buildings, fill areas, paved and unpaved areas, vegetated areas, and all areas of concern identified above and all active or inactive wells.
 - B. Scaled historical site maps and facility as built drawings (if available).

J. - saland

- C. A copy of the United States Geologic Survey (USGS) 7.5 minute topographical quadrangle that includes the site and an area of at least one mile radius around the site. The facility location shall be clearly noted. If a portion of the USGS quadrangle is used, the scale, north arrow, contour interval, longitude and latitude with the name and date of the USGS quadrangle shall be noted on the map.
- 15. In accordance with N.J.A.C. 7:26E-3.2, please provide the date that the site visit was completed to verify the findings of the preliminary assessment. ______10/15/2002______
- 16. List any other information you are submitting or which has been formerly requested by the Department:

	Description	Appendix #
Not Applicable		

CERTIFICATION:

The following certification shall be signed by the highest-ranking individual at the site with overall responsibility for that site or activity. Where there is no individual at the site with overall responsibility for that site or activity, this certification shall be signed by the individual having responsibility for the overall operation of the site or activity.

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information, and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or at thorize the violation of any statute, I am personally liable for the penalties.

Belleville Industrial Center; a NJ Corporation

Typed/Printed Name By: Lynn Clurman Ti	tle .	President	
--	-------	-----------	--

Signature UMULLUM Date 2/19/03

Date of Flowling 2003

Notary

BROOKE A. PARENTE A Notary Public Of New Jersey My Commission Expires July 19, 2007

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A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR).

TARGET PROPERTY INFORMATION

ADDRESS

HELION INDUSTRIES BELLEVILLE, NJ 07109

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records within the requested search area for the following databases:

FEDERAL ASTM STANDARD

NPL	National Priority List
Proposed NPL	Proposed National Priority List Sites
	Emergency Response Notification System

STATE ASTM STANDARD

SWF/LF..... Solid Waste Facility Directory

FEDERAL ASTM SUPPLEMENTAL

CONSENT	Superfund (CERCLA) Consent Decrees
ROD	
Delisted NPL	. National Priority List Deletions
HMIRS	Hazardous Materials Information Reporting System
MINES.	
NPL Liens	
PADS	PCB Activity Database System
	. RCRA Administrative Action Tracking System
TSCA	

STATE OR LOCAL ASTM SUPPLEMENTAL

NJ MAJOR FACILITIES	List of Major Facilities
	Publicly Funded Cleanups Site Status Report
	Chromate Chemical Production Waste Sites

EDR PROPRIETARY HISTORICAL DATABASES

Coal Gas Former Manufactured Gas (Coal Gas) Sites

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL ASTM STANDARD

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 08/15/2002 has revealed that there is 1 CERCLIS site within the searched area.

Site	Address	Map ID	Page
L. SONNEBORNS SONS, INC.	1 RIVER ROAD	9	116

CERCLIS-NFRAP: As of February 1995. CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

A review of the CERC-NFRAP list, as provided by EDR, and dated 09/15/2002 has revealed that there are 2 CERC-NFRAP sites within the searched area.

Site	Address	Map ID	Page
SEL-REX/UNILITE CHEMICAL CORP	75 RIVER RD	2	34
IDEAL PLATING AND POLISHING CO	681 MAIN STREET	8	72

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 05/02/2002 has revealed that there is 1 CORRACTS site within the searched area.

Site	Address	$DDCOOO211_{2}^{\frac{Map1D}{2}}$	Page
ENTHONE - OMI INC	75 RIVER RD	0000002112	25

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-TSD list, as provided by EDR, and dated 09/09/2002 has revealed that there are 2 RCRIS-TSD sites within the searched area.

Site	Address	Map ID	Page
ENTHONE - OMI INC	75 RIVER RD	2	25
IDEAL PLATING AND POLISHING CO	681 MAIN STREET	8	72

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-LQG list, as provided by EDR, and dated 09/09/2002 has revealed that there are 2 RCRIS-LQG sites within the searched area.

Site	Address		Page
L. SONNEBORNS SONS, INC.	1 RIVER ROAD	•	116
MILLENIUM HOLDINGS	675 MAIN ST		143

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 09/09/2002 has revealed that there are 15 RCRIS-SQG sites within the searched area.

Site	Address	Map ID	Page
HARBOT DIE CASTING CORP	52 EAST CENTRE ST	1	3
TECHNICAL COATINGS CO	57 E CENTRE ST	1	19
ENTHONE - OMI INC	75 RIVER RD	2	25
PEOPLES EXPRESS	25A RIVER RD	- 5	46
NJ TRANSIT - BIG TREE GARAGE	1 WASHINGTON AVE	6	56
BURLING INSTRUMENT CO INC	16 RIVER RD	7	<i>56</i>
TECH FINISHING CO	681 MAIN ST BLDG 23	8	58
BELLEVILLE INDUSTRIAL CENTER I	681 MAIN ST BLDG 43	8	61
IDEAL PLATING AND POLISHING CO	681 MAIN STREET	8	72
SCERBO AUTO BODY	4 RIVER RD	9	119
FRANKS SUNOCO	735 WASHINGTON AVE	11	124
COSTAS CUSTOM CABINETS INC	681 MAIN ST BUILDING 24	14	148
SYNFAX MFG INC	SYNFAX MFG INC 681 MAIN	14	148
AMERCHEM CORP	681 MAIN ST BLDG 9 2ND	14	149
LIDO AUTO BODY	110 ROOSEVELT AVE	16	155

STATE ASTM STANDARD

SHWS: Known contaminated sites in New Jersey except those associated with Bureau of Underground Storage Sites (BUST)

A review of the SHWS list, as provided by EDR, has revealed that there are 4*SHWS sites within the searched area.

Address	Map ID	Page
57 CENTRE ST E	1	16
75 RIVER ROAD	2 .	31
1 RIVER RD	9	118
735 WASHINGTON AVE	11	124
	57 CENTRE ST E 75 RIVER ROAD 1 RIVER RD	57 CENTRE ST E 1 2

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Protection & Energy's Incident Report.

A review of the LUST list, as provided by EDR, and dated 07/16/2002 has revealed that there are 7 LUST sites within the searched area.

Site	Address	Map ID	Page
TECHNICAL COATINGS CO	57 EAST CENTRE ST	1	6
FOAM RUBBER FABRICATORS INC	740 WASHINGTON AVE	10	123
FRANK SUNOCO	735 WASHINGTON AVE	11	125
RTE #21 ASSOCIATES/MAX FINKELS	675 MAIN ST	14	143
MILLENIUM HOLDINGS	675 MAIN ST	14	143
US OIL/TOWACO SERVICE STATION	686 MAIN STREET	14	150
FINKELSTEIN CO	MAIN ST	15	152

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Protection & Energy's UST Data.

A review of the UST list, as provided by EDR, and dated 09/15/1999 has revealed that there are 11 UST sites within the searched area.

Site	Address	Map ID	Page
HARBOT DIE CASTING CORP	52 EAST CENTRE ST	1	3
TECHNICAL COATINGS CO	57 EAST CENTRE ST	1	6
TECHNICAL COATINGS CO	57 E CENTRE ST	i	16
OMI INTETNATIONAL CORP.	75 RIVER ROAD	2	31
BIG TREE BUS GARAGE	1 WASHINGTON AVE	6	50
BELLEVILLE INDUSTRIAL CENTER	681 MAIN ST	8	81
FOAM RUBBER FABRICATORS INC	740 WASHINGTON AVE	10	123
FRANK SUNOCO	735 WASHINGTON AVE	11	125
ROUTE 21 ASSOCIATES	675 MAIN ST	14	136
ROUTE 21 ASSOCIATES	675 MAIN ST	14	137
VA & E DEFEO	109-115 ROOSEVELT AVE	16	152

FEDERAL ASTM SUPPLEMENTAL

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 06/13/2002 has revealed that there are 22 FINDS sites within the searched area.

Site	Address	Map ID	Page
HARBOT DIE CASTING CORP	52 EAST CENTRE ST	1	3
TECHNICAL COATINGS CO	57 E CENTRE ST	1	19
ENTHONE - OMI INC	75 RIVER RD	2	25
PEOPLES EXPRESS	25A RIVER RD	5	46
NJ TRANSIT - BIG TREE GARAGE	1 WASHINGTON AVE	6	<i>56</i>
BURLING INSTRUMENT CO INC	16 RIVER RD	7	<i>56</i>
TECH FINISHING CO	681 MAIN ST BLDG 23	8	58
BELLEVILLE INDUSTRIAL CENTER I	681 MAIN ST BLDG 43	8	61
IDEAL PLATING AND POLISHING CO	681 MAIN STREET	8	72
L. SONNEBORNS SONS, INC.	1 RIVER ROAD	9	116
SCERBO AUTO BODY	4 RIVER RD	9	119
FRANKS SUNOCO	735 WASHINGTON AVE	11	124
WESTINGHOUSE ELECT	700 WASHINGTON AVE	13	134
MILLENIUM HOLDINGS	675 MAIN ST	14	143
COSTAS CUSTOM CABINETS INC	681 MAIN ST BUILDING 24	14	148
SYNFAX MFG INC	SYNFAX MFG INC 681 MAIN	14	148
AMERCHEM CORP	681 MAIN ST BLDG 9 2ND	14	149
UNIPACK, INC	681 MAIN ST, BLDG # 27	14	149
F&L PACKING CORP.	681 MAIN STREET	14	149
HELION INDUSTRIES INCORPORATED	681 MAIN STREET	14	149
HY-TEST PACKAGING CORP	681 MAIN ST, BLDG #30	14	150
LIDO AUTO BODY	110 ROOSEVELT AVE	16	155

MLTS: The Material Licensing Tracking System is maintained by the Nuclear Regulatory Commission and contains a list fo approximately 8,100 sites which possess or use radioactive materials and are subject to NRC licensing requirements.

A review of the MLTS list, as provided by EDR, and dated 07/12/2002 has revealed that there is 1 MLTS site within the searched area.

Site	Address	Map ID	Page
TECHNION, INC.	681 MAIN STREET	8	65

TRIS: The Toxic Chemical Release Inventory System identifies facilities that release toxic chemicals to the air, water, and land in reportable quantities under SARA Title III, Section 313. The source of this database is the U.S. EPA.

A review of the TRIS list, as provided by EDR, and dated 12/31/2000 has revealed that there are 4 TRIS sites within the searched area.

Site	Address	Map ID	Page
TECHNICAL COATINGS CO	57 E CENTRE ST	1	19
ENTHONE - OMI INC	75 RIVER RD	2	25
TECH FINISHING CO	681 MAIN ST BLDG 23	8	<i>58</i>
SYNFAX MFG INC	SYNFAX MFG INC 681 MAIN	14	148 .

SSTS: Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

A review of the SSTS list, as provided by EDR, and dated 12/31/2000 has revealed that there are 2 SSTS sites within the searched area.

Site	Address	Map ID	Page
TECHNICAL COATINGS CO. TECNA CORPORATION	57 E CENTRE ST.	1	15
	681 MAIN STREET	14	150

FTTS: FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act) over the previous five years. To maintain currency, EDR contacts the Agency on a quarterly basis.

A review of the FTTS list, as provided by EDR, and dated 04/25/2002 has revealed that there are 3 FTTS sites within the searched area.

Site .,	Address	Map ID	Page
TECHNICAL COATINGS CO	57 E CENTRE ST	1	19
HY-TEST PACKAGING CORP	681 MAIN ST, BLDG #30	14	150
HY-TEST PACKAGING CORP	681 MAIN ST, BLDG#30	14	150

DDC000215

STATE OR LOCAL ASTM SUPPLEMENTAL

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NJ SPILLS: All hazmat known or unknown spills to the ground reported to the DEP's Env. Action Line. The office has not conducted any investigations to determine it's validity or accuracy.

A review of the NJ Spills list, as provided by EDR, has revealed that there are 31 NJ Spills sites within the searched area.

Site	Address	Map ID	Page
TECHNICAL COATINGS CO	57 EAST CENTRE ST	1	6

TC867529.1s EXECUTIVE SUMMARY 6

Site	Address	Map ID	Page
TECHNICAL COATINGS CO	57 E CENTRE ST	1	19
ENTHONE-OMI INC	75 RIVER RD	2	28
HUETTENMOSER RESIDENCE	57 RIVER RD	3	35
RESIDENCE CONKLIN, RICH	41 RIVER RD	4	36
CHATHAM NEWS SERVICES	30-33 RIVER RD	5	38
COUNTRYSIDE ASSOC DEVELOPERS	30 RIVER ROAD	5	39
MELONY BUS CO	29 RIVER RD	5	46
NATIONAL SCHOOL BUS SERVICE IN	29 RIVER RD	5	48
BIG TREE BUS GARAGE	1 WASHINGTON AVE	6	50
BELLVILLE INDUSTRIAL CTR	681 MAIN ST	8	57
ON THE GROUND	681 MAIN ST	8	59
EGLU EXPRESS	681 MAIN ST.	8	60
IN FRONT OF	681 MAIN ST	8	64
IN PARKING LOT OF	681 MAIN STREET	8	67
IDEAL PLATING AND POLISHING CO	681 MAIN STREET	8	72
BELLEVILLE INDUSTRIAL CENTER	681 MAIN ST	8	81
ON ROADWAY OF	MAIN ST / ANDREWSON	8	106
681 ASSOCIATES-IND COMPLEX	681 MAIN ST	8	110
NATIONAL MANUFACTURING	2 RIVER RD	9	112
FOAM FABRICATORS	740 WASHINGTON AVE	10	119
FOAM RUBBER FABRICATORS	740 WASHINGTON AVE	10	122
FRANKS SUNCO	735 WASHINGTON AVE	11	127
PATHMARK STORE	726 WASHINGTON AVE	12	130
IN REAR OF	729 WASHINGTON AVE	12	133
RT 21 ASSOCIATES OF BELLEVILLE	675 MAIN ST	14	134
RT#21 ASSOCIATES	675 MAIN ST	14	140
RT 21 ASSOCATES	675 MAIN ST	14	141
MILLENIUM HOLDINGS	675 MAIN ST	14	143
RT#21 ASSOC/MAX FINKELSTEIN	675 MAIN ST	14	146
MAX-FINKELSTEIN INC	675 MAIN STREET	15	150

NJ RELEASE: Hazardous material release. Initial notification information reported to the Dept. of Env. Protection's Action Line. The office has not conducted any investigations to determine it's validity. or accuracy.

A review of the NJ Release list, as provided by EDR, has revealed that there are 15 NJ Release sites within the searched area.

Site	Address	Map ID	Page
ON ROADWAY/ STORM SEWER	57 EAST CENTER ST	1	4
TECHNICAL COATINGS CO	57 E CENTRE ST	1	19
ENTHONE-OMI INC	75 RIVER RD	2	28
OMI INTETNATIONAL CORP.	75 RIVER ROAD	2	31
BIG TREE BUS GARAGE	1 WASHINGTON AVE	6	50
IGLOO EXPRESS	681 MAIN STREET	8	62
PARKING LOT	681 MAIN ST	8	65
D & L PAVING	681 MAIN STREET	8	70
BELLEVILLE INDUSTRIAL CENTER	681 MAIN ST	8	81
ON ROADWAY OF	MAIN ST / ANDREWSON	8	106
LOT AT BLDG 27	681 MAIN ST	8	109
IN THE AREA OF	1 RIVER RD	9	115
AREA OF	1 RIVER RD	9	117
FOAM FABRICATORS	1 RIVER RD 740 WASHINGTON AVE DDC00021	10 K	119

Site	Address	Map ID	Page
PATHMARK STORE	726 WASHINGTON AVE	12	130

NJ BROWNFIELDS:Brownfields are identified as formter or current commmercial or industrial use sites that are presently vacant or underutilized, on which there is suspected to have been a discharge of a contamination to the soil or groundwater at concentra tions greater than applicable cleanup criteria.

A re riew of the BROWNFIELDS list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 BROWNFIELDS sites within the searched area.

Site	Address	Map ID	Page
BELLEVILLE INDUSTRIAL CENTER I	681 MAIN ST BLDG 43	8	<i>61</i>
ROUTE 21 ASSOCIATES OF BELLEVI	675 MAIN ST	14	135

NJ PDES: The NJPDES contains the names, addresses and other information of all permitted New Jersey Pollutant Discharge Elimination Sytem dischargers.

A review of the NJPDES list, as provided by EDR, and dated 10/10/2000 has revealed that there are 4 NJPDES sites within the searched area.

Site	Address	Map ID	Page
HARBOT DIE CASTING CORP TECHNICAL COATINGS CO NATIONAL SCHOOL BUS SERVICE IN BIG TREE BUS GARAGE	52 EAST CENTRE ST 57 EAST CENTRE ST 29 RIVER RD 1 WASHINGTON AVE	1 1 5	3 6 48 50

Please refer to the end of the findings report for unmapped orphan sites due to poor or inadequate address information.

DDC000218

TC867529.1s EXECUTIVE SUMMARY 9

APPENDIX B RECENT SITE OPERATIONS

APPENDIX B RECENT SITE OPERATIONS HELION INDUSTRIES, INC. BELLEVILLE, NEW JERSEY

2B. Include a detailed description of the most recent operations subject to this preliminary assessment.

Helion Industries, Inc. operated at the site from 1975 to 2001. Currently, Helion is filing for Chapter 11 Bankruptcy. As such, Belleville Industrial Center has undertaken the task of cleaning the leasehold and disposing of residual chemicals that Helion left within the leasehold after vacating the premise. At this time, no operations are conducted within the leasehold, all chemicals have been properly disposed of (EPA Generator ID #NJD075140889), and the space is vacant. Helion's operational history is provided in Appendix A.

APPENDIX C HAZARDOUS SUBSTANCE/WASTE INVENTORY

APPENDIX C

HAZARDOUS SUBSTANCE/WASTE INVENTORY HELION INDUSTRIES, INC. BELLEVILLE, NEW JERSEY

3. Hazardous Substance/Waste Inventory: N.J.A.C. 7;26E-3.1(c)1.iii. List <u>all</u> raw materials, finished- products, formulations and hazardous substances, hazardous wastes, hazardous constituents and pollutants, including intermediates and by-products that <u>are or were historically present</u> on the site. Note: If past usage included farming, pesticides may be a concern and should be included in this list.

Material Name	CAS#if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
Ammonia	7664-41-7	50,000	Tank, plastic bottles, plastic drum
Diethanolamine	111-42-2	1,000	Steel drum, plastic bottles, plastic drum
Ethylene Glycol	107-21-1	1,000	Steel drum, plastic drum, plastic bottles
Glycol Ethers	N230	1,000	Steel drum, plastic bottles
Hydroquinone	123-31-9	10,000	Bag, plastic drum
Phosphoric Acid	7664-38-2	1,000	Plastic drum, plastic bottles
Sulfuric Acid	7664-93-9	1,000	Plastic drum, plastic bottles
Nitrate Compounds	N511	1,000	Plastic drum, plastic bottles
Potassium Sulfite 45% . ,	10117-38-1		Plastic bottles and tanks
Acetic Acid Glacial	64-19-7	3600 lbs.	Drum
Acetone	67-64-1	360	Drum
Aerosol OS (Chem 95)		55	Drum
Aerosol OT-75	64-17-5	75	Drum
Aluminum Sulfate (17%)	10043-01-3	20,200	
Aminothylaminoethanol		Not Known	
Ammonium Hydroxide (26%)	1336-21-6	385	
Ammonium Thiocyanate	1762-95-4	Not Known	Bag
Ammonium Thiosulfate	7783-18-8	44000	
Ascorbic Acid USP	50-81-7	Not Known	Drum
Aqua Ammonia 26	7664-41-7	Not Known	Drum
Arcosolv PTB	108-65-6	Not Known	Drum
Avanel-S-70		Not Known	Pail
Amine CS-1135		Not Known	Pail
Borax 5 MOL	1330-43-4	Not Known	Bag
Boric Acid	10043-35-3	Not Known	Bag
Boric Acid Anhydrous	10043-35-3	Not Known	Bag

Material Name	CAS # if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
Butyl Cellosolve	111-76-2	1600	
Benzyl Alcohol	100-51-6	Not Known	Drum
BHT	128-37-0	Not Known	Drum
Brij 30	5274-68-0	Not Known	Pail
Butyl Carbitol	112-34-5	440	Drum
Carbowax 300	9002-84-0	Not Known	Drum
Carbowax Peg 200	111-46-6	Not Known	Drum
Carbowax Peg 1450	75-07-0	Not Known	Drum
Amber gum 1221		Not Known	
Cellosolve (Gly. Eth. EE) 419	110-80-5	Not Known	Drum
Chel 242 PN		Not Known	Drum
CH 112/Benzotriazole, GMS	94-14-7	Not Known	Didili
CH 125/PMT	7732-18-5	Not Known	Pail
CH 250/M'Capto T'Diazole	29490-19-5	Not Known	Pail
Citric Acid USP	77-92-9	Not Known	Bag
CD-3 Color Developer	11-92-9	Not Known	Drum
Chromic Acid	1333-82-0	150	Drum
Chromium	10101-53-8	Not Known	Diuni
Chloroform	67-66-3		Davina
	7758-98-7	Not Known	Drum
Cupric Sulfate Penta Tech		Not Known	<u> </u>
DBE Esters	1119-40-0	Not Known	Drum
DPM 435	400.07.0	Not Known	Drum
Diethylethanolamine	100-37-8	Not Known	Drum
Diethanolamine 85%	111-42-2	1340	Drum
Diethylene Glycol	111-46-6	1020	Drum
Dowanol PM	107-98-2	450	Drum
Dowanol DPM	34590-94-8	435	
Dimazone S GMS		Not Known	
D'Limonene 379	5989-87-5	Not Known	Drum
Dithiooctanediol		Not Known	Pail
Di-Isobutyl DBE 485		Not Known	Drum
Dodecylbenzenesulfonicacid		Not Known	
Dantogard 40%		Not Known	Pail
DPNB (Dipropy'Glynbuteth)		Not Known	
40% Sodium DDBSA (Patco 240S)		Not Known	
Defoamer AF 9020		Not Known	Drum
DDBSA Flake 85/5P Phos.		Not Known	Bag
Ethanol SIS-A1-200		Not Known	Drum
Ethanol 200 Proof		Not Known	Drum
Ethylene Glycol	107-21-1	1030	
Emcopon T-77		Not Known	Drum
Exxate 1000		Not Known	Drum
Exxate 1300		Not Known	Drum
Exxate 900		Not Known	Drum
Ethanol PS-642-200		Not Known	Drum
Ferric Ammonium EDTA		Not Known	Drum
Gluconic Acid 50%	526-95-4	Not Known	Drum
Gly. Ether EP (Propycell)	111-46-6	Not Known	
Glutaraldehyde 25%	111-30-8	Not Known	Drum

Material Name	CAS#if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
Glycerine 99%	56-81-5	Not Known	Drum
Gum Arabic 14 BE	9000-01-5	Not Known	
Gerapon SS-0-75		Not Known	Drum
GE Silicone AF9020	71-43-2	Not Known	
Hanpfoam 35		Not Known	Drum
Hydroxy Ethyl Cellulose	9004-62-0	Not Known	Bag
Hydrogen Peroxide 35%	7722-84-1	500	Drum
Hydrochloric Acid 40%	7647-01-0	500	Drum
Hydrochloric Acid 20	7647-01-0	Not Known	Drum
Hydroquinone Photograde	123-31-9	4400	Bag
Hydroxylamine Sulfate	10039-54-0	Not Known	Bag
Hexylene Glycol	107-41-5	Not Known	Drum
HR1 (Heptylmercaptooxadiazl) GM		Not Known	
Hydroxyaceticacid 70%	79-14-1	Not Known	Drum
Igepal C0710	26636-32-8	Not Known	Drum
Isopropanol 99%	67-63-0	Not Known	
Igepon T-33 GMS	0.000	Not Known	
Isopar E		Not Known	Drum
Kasil #6 (Potassium Silicate)		Not Known	- Brain
Luviskol (PVP)		Not Known	Drum
LF330 Antarox Surfactant (GMS)		Not Known	- Orani
Lactic Acid	50-21-5	Not Known	Drum
Larostat 264A Anhydrous	30-21-3	Not Known	Pail
Lithium Hydroxide	1310-65-2	50	Drum
Gly Ethr DM (Meth Carb)	111-77-3	Not Known	Dium
Ludox AM	111-17-5	Not Known	Drum
Magnesium Carbonate	546-93-0	Not Known	Bag
Magnesium Nitrate	10377-60-3	200	Drum
Methanol	67-56-1	365	Drum
Methylaminoethanol	109-83-1	Not Known	Drum
Methyl Benzotriazole GMS	103-03-1	Not Known	Diam
Methyl Cellosolve	109-86-4	Not Known	Drum
Methyl Ester Blend 420	103-00-4	Not Known	Drum
Methyldiethanol Amine	105-59-9	Not Known	Didiii
Mineral Spirits 360	103-33-3	Not Known	Drum
Mono Ammonium Phosphate	7722-76-1	Not Known	Bag
Monocor2000 Hostacor2098	1122-10-1	Not Known	Day
Monoeth'olamine	141-43-5	Not Known	
Monomid 705	141-43-3	Not Known	Pail
Masil EM350XC (Silicone)		Not Known	rall
Methyl Ester C1270		Not Known	Drum
Methyl Soyate MEI30		Not Known	Drum
Mon653C/83D NIN11CM			Drum
Monaterge LF945		Not Known	D
		Not Known	Drum
Monawt MO-70E		Not Known	Drum
Sodium MBT 50%		Not Known	Drum
Monacor 1000		Not Known	Drum
2-Mercaptobenzotiazole	444 10 5	Not Known	Drum
Mineral Seal Oil	141-43-5	Not Known	Drum

Material Name	CAS # if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
Nitrobenzimidazole GMS	94-52-0	Not Known	
Nitroindazole	7597-18-4	Not Known	Bag
Nitrilotriacetic Acid	139-13-9	50	Bag
N-Propanol	71-23-8	Not Known	Drum
N-Pyrol 470		Not Known	Drum
Neodal 91-6		Not Known	Drum
Ninol GR 420		Not Known	Drum
Ninol 11CM 420		Not Known	Drum
Oxone		Not Known	Bag
Pluronie 31R1		Not Known	Drum
Phenidone		Not Known	Didiii
	77-09-8	Not Known	
Phenolphthalein	7664-38-2	1,750	Drum
Phosphoric Acid 85%			Drum
Potassium Alum	10043-67-1	Not Known	Bag
Potassium Bromide	7758-02-3	Not Known	Bag
Potassium Carbonate	784-08-7	Not Known	Bag
Potassium Ferricyanide	13746-66-2	Not Known	Drum-
Potassium Hydroxide	1310-58-3	Not Known	Drum
Potassium Hydroxide 45%	1310-58-3	Not Known	Drum
Potassium Iodide GMS	7681-11-0	Not Known	
Potassium Metabisulfite	16731-55-8	Not Known	Bag
Pemulen/Carbopal 1622		Not Known	Bag
Potassium Sulfite 45%		42,200	
Pumice Powder FFF		Not Known	Bag
Propylene Glycol	57-55-6	Not Known	Drum
Patco 60% AES (Sodlau'Lethersul)		Not Known	
Patco 40% SXS (Sodxylenesulfonate)		Not Known	
Rhodafac RE610 460		Not Known	Drum
SAG 30 Defoamer	7732-18-5	Not Known	Pail
Sequest NA2 (NA2EDTA)		Not Known	Drum
Sodium Acetate	127-09-3	Not Known	Bag
Sodium Benzoate	532-32-1	Not Known	Bag
Sodium Bichromate	10588-01-9	900	Bag
Sodium Bisulfate	7681-38-1	Not Known	Drum
Sodium Bromide	7647-15-6	Not Known	Drum
Sodium Carbonate Mono	497-19-8	Not Known	Bag
Sodium Metaborate	10555-76-7	Not Known	Bag
Sodium F'Mald Bisulfite 55	870-72-4	Not Known	Bag
Sodium Gluconate	527-07-1	Not Known	Bag
Sodium Hexameta Phosphate	68915-31-1	Not Known	Bag
Sodium Hydroxide Flakes	1310-73-2	Not Known	Drum
Sodium Hydroxide 50%	1310-73-2	Not Known	Drum
Sodium Lauryl Sulfate 28%	151-21-3	Not Known	Drum
Sodium Metabisulfite Photo	7681-57-4	Not Known	
Sodium Nitrate			Bag
) ————————————————————————————————————	7631-99-4	300	N
Sodium Sulfite Dhate	7757-82-6	Not Known	Drum
Sodium Sulfite Photo	7757-83-7	Not Known	Bag
Sodium Thiocyanate Photo	540-72-7	Not Known	Bag

Typical annual 1

Material Name	CAS#ifknown	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
Velsechem Stab		500	
PA ACT		6,790	
Posplate Stabilizer		3,200	
Blue Proc. Clm		30	
Corr. Inhibitor		400	
Aerospace Clean Compound		0	
Elustatic ETCH		4,620 /	
550 RA Dev (DK)		5,370	
Micro Dev Conc		800	
EZ Fix		1,600	
EZ Tech Fix		400	
Bye Bye Barn		440	
Tray Cleaner		/ 555	
Helio Fountain 2600Y		1,800	
waste Bromine, 8, UN1744 PG1	/	0.5	can
New reclaimed material		400	Drum
RQ waste chloroform, 6.1, UN1888, PG			
Ш		55	Drum (fiberglass)
RQ waste triethanol, 3, UN1296, RGII	<i>[</i>	55	Drum
RQ waste phosphoric acid, 8, UN1805, PGII		95	Drum (fiberglass)
RQ waste ferric nitrate, 5.1, UN1466, PGII		55	Drum (fiberglass)
RQ waste flammable liquid, 3, UN1993, PGII		10	Drum (fiberglass)
Waste chromic acid solid		25	Plastic container
Waste flammable liquid toxic corrosive / no. 3, UN 3286, PGII		4	Drum
Waste toxic liquid organic, 6.1, UN2810, PGII		1	Drum
RQ waste corrosive liquid, no. 8, / UN2796, PGII		75	Drum (fiberglass)
RQ waste acetic acid solution, no. 8, UN2790, PGII		5	Drum (fiberglass)
RQ waste ferric chloride solution, no. 8, UN2582, PGIII		230	Drum (fiberglass)
RQ waste formaldehyde solution, no. 9, UN2209, PGIII (contains sulfuric acid, ferric chloride solution, acetic acid solution and formaldehyde solution)		110	Drum (fiberglass)
RQ waste sodium sulfide solution, no. 8, UN1849, PGII		55	Drum (fiberglass)
Chemical process liquid, non RCRA/non DOT		55	Drum
Chemical process liquid, non RCRA/non DOT (contains sodium sulfide solution, zirconium acetate, trisodium nitrotriacetate solution)		55	Drum
RQ waste corrosive liquid, no. 8, UN1760, PGII		6	Drum (fiberglass)

Material Name	CAS#if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
Sodium Thiosulfate Anhydrous	7772-98-7	Not Known	Bag
Sodium Thiosulfate Riced	7772-98-7	Not Known	Bag
Sodium Tripolyphosphate	7758-29-4	Not Known	Bag
Sodium Meta Silicate	6834-92-0	Not Known	Bag
Soy Bean Oil		Not Known	Drum
Sulfamic Acid	5329-14-6	Not Known	Bag
Sulfuric Acid 66	7664-93-9	750	Drum
Aromatic 100 (Hi Flash)		Not Known	Drum
Surfynol 104E		Not Known	Pail
Surfynol 465		Not Known	Pail
Sodium Perborate Tetrahyd.	7632-04-4	Not Known	Bag
Sodium Citrate	68-04-2	Not Known	Bag
Surfynol-104-PG50	00 04 2	Not Known	- Jug
Span 80		Not Known	Drum
Surfonic N60		Not Known	Drum
Surfonic N95		Not Known	Drum
Surfonic N40		Not Known	Drum
The second secon	7632-00-0	300	Bag
Sodium Nitrite Surfonic N-150	7032-00-0	Not Known	+
The state of the s		Not Known	Drum
Stepan BTC 50			D
Solvent #9	00 55 5	Not Known	Drum
Terpineol	98-55-5	Not Known	Drum
Texanol	25265-77-4	Not Known	D
Triethanolamine	102-71-6	Not Known	Drum
Triethyleneglycol (TEG)	7004 54.0	Not Known	Drum
Trisodium phosphate crystals	7601-54-9	Not Known	Bag
Triton X-165		Not Known	Pail
Tinopal SFP		Not Known	Bag
Tween 80		Not Known	Drum
Tolu-Sol "A"		Not Known	Drum
TPM 445	100.00.0	Not Known	Drum
Toluene	108-88-3	400	Drum
Trichloroethylene 660	79-01-6	Not Known	Drum
TT 100		Not Known	Drum
Tween 85		Not Known	
Versene Acid	60-00-4	Not Known	Drum
Versenl 120/Hampol 120		Not Known	
Alpine Van. Frag 180-491		Not Known	
Versenex 80		Not Known	Drum
V.M. & P. Naptha	64742-89-8	Not Known	Drum
Witconate SK		Not Known	Drum
YP Soda/Sod Ferrocyanide		Not Known	Bag
Zirconium Acetate		Not Known	Drum
Zinc Nitrate 50%	7779-88-6	500	
CPD		36,500	
REP-5		22,330	
RC127		5,690	
HD2M Conc		3,800	
HD2M RTU		17,200	

Material Name	CAS # if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
Hybrid		1,500	
Velsechem DTR (DV and DT)		2,410	***************************************
DTR ACT		473	
Lith A/Rep A		5,250	
Lith B	1	5,075	
Rep B		400	
RE RTU		600	
REC Conc.		315	
		600	
303 Dev RTU			
303 Dev Conc		315	
Peri Pro Dev		150	
DC Peri Pro		100	
Sensi Pro Dev		400	
MP Sensi Pro		800	ļ
PX Dent-X Dev		2,250	
Dent-X Dev		2,250	
AM A-1000Act		620	
A-1000Act		650	
VBA V182B ACT		500	
HD Deeptank		400	
XRM 21 Dev		120	
DTR Print Stab		100	
NPX Stripper (Js)		2,010	
VP (DTR Dev)		1,200	
Jomac Cover (KQ)		150	
Textad 613 Conc 55+55+55	1	165	
XH30		5,880	
Hardener		3,460	
Fixer Conc.		51,900	
3300 Fix		36,730	A Administration of the second
VS04 Fix		300	
Peri Pro Fix		50	
FC Peri Pro Fix			
Sensi Pro Fix		50 700	
MA Sensi Pro Fix		400	
ETCH			
		3,520	
VBS Stabilizer		500	
DSC pt N		425	
Fountain Solution		2,450	
Jomac Damp Prep		270	
Lithogum (QP)		0	
PP Act		4,600	
PP Stab		2,400	
PP Etch		1,260	
Wash Water Add type K		300	
Qualchem I & II Leak Det.		6,041	
Leak Detection Compound		2,775	
Corr. Inh. (CI)		9,728	
Aerosol Cleaner (CC)		220	

Material Name	CAS # if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank, jars)
Velsechem Stab		500	
PA ACT		6,790	
Posplate Stabilizer		3,200	
Blue Proc. Clm		30	
Corr. Inhibitor		400-	
Aerospace Clean Compound		0	
Elustatic ETCH		4,620	
550 RA Dev (DK)		5,370	
		800	
Micro Dev Conc			
EZ Fix		1,600	<u> </u>
EZ Tech Fix		400	
Bye Bye Barn		440	<u> </u>
Tray Cleaner		555	
Helio Fountain 2600Y		1,800	
waste Bromine, 8, UN1744 PG1		0.5	can
New reclaimed material		400	Drum
RQ waste chloroform, 6.1, UN1888, PG		55	Drum (fiberglass)
RQ waste triethanol, 3, UN1296, PGII		55	Drum
RQ waste phosphoric acid, 8, UN1805, PGII		95	Drum (fiberglass)
RQ waste ferric nitrate, 5.1, UN1466, PGII		55	Drum (fiberglass)
RQ waste flammable liquid, 3, UN1993, PGII		10	Drum (fiberglass)
Waste chromic acid solid		25	Plastic container
Waste flammable liquid toxic corrosive		20	i lastic container
no. 3, UN 3286, PGII		4	Drum
Waste toxic liquid organic, 6.1, UN2810, PGII		1	Drum
RQ waste corrosive liquid, no. 8, UN2796, PGII		75	Drum (fiberglass)
RQ waste acetic acid solution, no. 8, UN2790, PGII		5	Drum (fiberglass)
RQ waste ferric chloride solution, no. 8, UN2582, PGIII		230	Drum (fiberglass)
RQ waste formaldehyde solution, no. 9, UN2209, PGIII (contains sulfuric acid, ferric chloride solution, acetic acid solution and formaldehyde solution)		110	Drum (fiberglass)
RQ waste sodium sulfide solution, no. 8, UN1849, PGII		55	Drum (fiberglass)
Chemical process liquid, non RCRA/non DOT		55	Drum
Chemical process liquid, non RCRA/non DOT (contains sodium sulfide solution, zirconium acetate, trisodium nitrotriacetate solution)		55	Drum
RQ waste corrosive liquid, no. 8, UN1760, PGII		6	Drum (fiberglass)

Material Name	CAS#if known	Typical annual usage (gallons/lbs.)	Storage method (i.e. Drum, tank,)ars)
RQ waste corrosive liquid, no. 8, UN1760, PGIII		5	Drum (fiberglass)
RQ waste aerosols, no. 2.1, UN1950, PGII		10	Drum (fiberglass)
RQ waste oxidizing solid, no. 5.1, UN1479, PGII	-	40	Plastic Drum
Corrosive solid, no. 8, NA1759, PGII		25	Plastic Drum
Corrosive solid, no. 8, NA1759, PGII		175	Plastic Drum
Waste mercury, no. 8, UN2809, PGII		1	Drum (fiberglass)
Waste corrosive liquid, no. 8, UN1760, PGII		50	Drum (fiberglass)
Waste corrosive liquid, no. 8, UN1760, PGII		2	Drum (fiberglass)
Waste oxidizing solid, no. 5.1, NA1479, PGII		125	Plastic Drum
RQ waste flammable liquid, no. 3, UN1993, PGIII (contains toluene, xylene and methylene chloride)		1700	Tank
Chemical process liquid, non RCRA/non DOT (contains detergents/surfactants solution)		2500	Tank
Chemical process solid, non RCRA/non DOT		6000 lbs.	Drum
Chemical process solid, non RCRA/non DOT		400 lbs.	Drum
Chemical process solid, non RCRA/non DOT (contains ammonium bromide, speedy dry, talcum powder)		1200 lbs.	Drum
Chemical process solid, non RCRA/non DOT (contains talcum powder and calcium carbonate)		10,000	Cubic yard box

APPENDIX D NARRATIVE OF DISPOSAL PROCESSES

APPENDIX D NARRATIVE OF DISPOSAL PROCESSES HELION INDUSTRIES, INC. BELLEVILLE, NEW JERSEY

4B. Provide a narrative of disposal processes for all historic and current process waste streams and disposal points.

A process wastewater stream was generated within buildings 11C and 9C in association with mixing and bottling operations, respectively. The average rate of wastewater flow was 3-5 gallons per day (maximu:n 10-20 gallons per day). The wastewaters were pumped through trenches in the floors of the buildings to the production/mixing outlet #1 located along the northern end of building 11C. From there, the wastewaters were discharged to a trench that transected building 11B and ultimately discharged through the northwestern end of building 14A to the sewer system.

The discharge of the process wastewater stream was permitted by the Passaic Valley Sewage Commissioners through a Sewer Use Permit. According to information provided by the property manager, the principal raw materials that comprised the wastewater stream were: water, acetic acid, ammonium thiosulfate, hydroquinone, potassium sulfate, sodium hydroxide, potassium hydroxide, sodium carbonate, and potassium carbonate. The process wastewater system is considered an AOC and is discussed further in Appendix E.

APPENDIX E AREAS OF CONCERN

APPENDIX E AREAS OF CONCERN HELION INDUSTRIES, INC. BELLEVILLE, NEW JERSEY

5. This question requires the applicant to conduct a diligent inquiry into the current and historic operations at the site to identify all of the potential areas of concern, which formerly or currently exists at the industrial establishment as defined in N.J.A.C. 7:26E-1.8.

In accordance with N.J.A.C. 7:26E3.1(c)1.v., a narrative shall be provided for each area of environmental concern describing the (A) Type; (B) Age; (C) Dimensions of each container/area; (D) Chemical Content; (E) Vōlume; (F) Construction materials; (G) Location; (H) Integrity (i.e., tank test reports, description of drum storage pad); and (I) Inventory control records, unless a Department-approved leak detection system, pursuant to N.J.A.C. 7:1E or 7:14B, has always been in place and there is no discharge history.

The AOCs presented below were identified based on an evaluation of the study area's operational history (see Appendix A) and a 15 October 2002 site inspection. Each AOC has been assessed to determine if a release/discharge of a hazardous substance has occurred. Based on the results of this assessment, recommendations of further actions or no further actions are provided.

AOC #1: Former Aboveground Storage Tanks

E) Volume:

F) Construction materials:

7

A) Type: 17 Former ASTs (7 storage, 10 mixing vats)

B) Age: 1975 to 2001

C) Dimensions of each container/area: Unknown

D) Chemical Content: See below

-, -.....

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G) Location: Building 14B, 17

H) Integrity: AST shells were Intact, staining and pitting on concrete

See below

See below

ground surface

I) Inventory control records: Not available

The locations of the former aboveground storage tanks are shown on Figure E1 provided within this Appendix. Seven former aboveground storage tanks were located in building 17 in the Tank Room and were used to store the following raw materials:

- Tank 001 (3,000 gallon) 60% ammonium thiosulfate
- Tank 002 (3,000 gallon) 60% ammonium thiosulfate

- Tank 003 (3,000 gallon) Dismantled and removed prior to November 1998, former contents unknown
- Tank 004 (3,000 gallon) Raw materials differed depending on production requirements.
- Tank 005 (3,000 gallon) Raw materials differed depending on production requirements.
- Tank 006 (4,000 gallon) 36% aluminum sulfate
- Tank 007 (6,000 gallon) 45% potassium sulfate

Tanks 001, 002, 004, and 005 vented through a water recovery carbon adsorption unit prior to discharging to the room. Tanks 006 and 007 vented to the room. During Helion's processes the above listed materials, and other chemicals (i.e. dry powders, drummed materials, etc.) were piped to the Mixing Room in building 14B and mixed in 10 former above ground mixing vats. The volume of the mixing vats ranged between 400 gallons and 2000 gallons (see Figure E1).

During the inspection, all ASTs were observed. To date each AST has been cleaned, decommissioned, and disposed of. In general, the concrete ground surface within the Tank Room and Mixing Room where the ASTs were located was heavily stained and pitted. A site investigation is recommended within the Tank Room and Mixing Room at areas of staining and breaches in the concrete ground surface to identify any subsurface contamination issues.

AOC #2: Floor Drains, Trenches, Piping, and Sumps

A) Type: Trenches and sumps

B) Age: 1975 to 2001

C) Dimensions of each container/area: See Figure E1

D) Chemical Gontent: Water, acetic acid, ammonium thiosulfate,

hydroquinone, potassium sulfate, sodium hydroxide, potassium hydroxide, sodium carbonate, and potassium

carbonate.

E) Volume: 3-5 gallons per day (max. 10-20 gallons per day)

F) Construction materials: Concrete and steel

G) Location: Buildings

H) Integrity:

1

I) Inventory control records: Not available

The locations of the trenches and sumps are shown on Figure E1 provided within this Appendix. The trenches and sumps were used by Helion Industries, Inc. to direct process wastewaters to the property's sewer system and ultimately the Passaic Valley Sewage Commissioners as

described in Appendix D. The discharge of the process wastewater stream was permitted by Passaic Valley Sewage Commissioners through a Sewer Use Permit. Site investigation activities are recommended to visually inspect the integrity of the trenches and sumps. If breaches are apparent, sampling is recommended to identify any subsurface contamination issues.

AOC #3: Process Area Sink

Sink A) Type:

1975 to 2001 B) Age:

See Figure E1 C) Dimensions of each container/area:

D) Chemical Content: Unknown

Not applicable E) Volume:

F) Construction materials: **Plastic**

G) Location: Buildings 4A, 9B

H) Integrity: Intact

Inventory control records: Not available

The locations of the process area sinks are shown on Figure E1 provided within this Appendix. The sinks were located within the photographic testing laboratory in building 4A and along the southern end of the men's room in building 9A. No process liquids are known to been discharged to the sinks. Each of the sinks is tied into the facility sanitary sewer system. No further actions are recommended.

See Figure E1

AOC #4: Hazardous Material Storage or Handling Areas

Drum storage A) Type: B) Age: 1975 to 2001

C) Dimensions of each container/area:

D) Chemical Content: See Appendix C

E) Volume: See Appendix C

F) Construction materials: Not applicable

G) Location: Buildings 6B, 9C, 11B, 11C, 14B, 17, & 18

H) Integrity: Staining and pitting on concrete ground surface

Inventory control records: Not available

The locations of the hazardous material storage and handling areas are shown on Figure E1 provided within this Appendix. Liquid and powder chemicals (see Appendix C) were stored in various containers (bags, pails, drums, above ground storage tanks) within buildings 6B, 9C, 11B, 11C, 14B, 17, & 18 and were processed during Helion's operations in buildings 9C, 11C, and 14B. As assessed during the inspection, heavy staining and pitting was noted on the concrete ground surface within these areas. A site investigation is recommended at areas of staining and breaches in the concrete ground surface to identify any subsurface contamination issues.

AOC #5: Loading or Transfer areas

A)	Type:	Loading area
B)	Age:	1975 to 2001
C)	Dimensions of each container/area:	See Figure E1
D)	Chemical Content:	Not applicable
E)	Volume:	Not applicable
F)	Construction materials:	Not applicable
G)	Location:	Buildings 11A, 17
H)	Integrity:	Not applicable
I)	Inventory control records:	Not available

The location of the loading area is shown on Figure E1 provided within this Appendix. Deliveries of liquid and powder chemicals were off-loaded within building 17 as access to the building was provided by large overhead door at the southern end of the building. Finished products were shipped from the northern end of building 11A. The loading area will be addressed through recommended site investigation activities associated with AOC #1. No further actions are recommended for the shipping area at the northern end of building 11A.

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PRELIMINARY ASSESSMENT

IDEAL PLATING AND POLISHING COMPANY, INC.

BELLEVILLE, ESSEX COUNTY

EPA ID NO. NJD087280038

DC000284



New Jersey Department of Environmental Protection and Energy Division of Responsible Party Site Remediation Bureau of Field Operations - Site Assessment Section NARRATIVE

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PRELIMINARY ASSESSMENT REPORT

PART I: GENERAL INFORMATION

Site Name: Ideal Plating and Polishing Company, Inc.

AKa: Belleville Industrial Center

Address: 681 Main Street

Municipality: Belleville State: NJ Zip Code: 07109

County: Essex

EPA ID No.: NJD087280038
Block: 108 Lot: 20

Latitude: 40° 48′ 24" Longitude: 74° 08′ 26"

Acreage: 15 SIC Code: 3471 (Plating/Polishing)

Current Owner: Belleville Industrial Center

Mailing Address: 681 Main Street

City: Belleville State: NJ Zip Code: 07109

Telephone No.: (201) 751-0360

Block: 56 Lot(s): 5, 6, 7, 9, 31

Block: 108 Lot(s): 10, 12, 20, 50, 60, 62

Current Operator: Ideal Plating and Polishing Company, Inc.

Mailing Address: 681 Main Street, P.O. Box 100

City: Belleville State: NJ Zip Code: 07109

Owner/Operator History:

· · · · · ·	OPERATOR		DATES
NAME	OWNER	FROM	<u>100</u>
Belleville Industrial Center	Owner	7/2/68	Present
Air Reduction Co. (A New York Corp.)	Owner	12/30/66	7/2/68
Cumberland Chemical Co. (A Delaware Corp.)	Owner	4/30/62	12/30/66
Textron Corp. (A Delaware Corp.)	Owner	3/23/60	4/30/62
Main Street Corporation	Owner	?	3/23/60

Surrounding Land Use (zoning, adjacent properties):

Mixed industrial/commercial/residential zoning. Residential units are directly adjacent to the site.

Distance to Nearest Residence: Adjacent Direction: North

Population Density (residents per square mile): There are 10,230 residents per square mile per the 1990 census data.

PART II: SITE OPERATIONS

Discuss all current and past operations at the site.

Ideal Plating and Polishing Company, Inc. (Ideal), is located within the Belleville Industrial Center (The Center). Ideal's 1992 annual corporate report lists Norman A. Cohen of 149 Kearny Avenue in Perth Amboy as its registered agent and Ronald Knigge as a corporate officer. The annual report for The Center confirms that it has been a New Jersey corporation since June 6, 1968 and that Lynn Clurman is a corporate officer and registered agent.

The blocks and lots which comprise The Center were formerly the site of an artificial leather and fabric dying factory called Federal Leather Co. Inc. (Federal). Based on the A. H. Mueller Co. Map dated 1906 and the State of New Jersey Industrial Directory for Essex County (NJID) dated 1931, the site was farmland owned by the Schaeffer family in 1906. According to "The History of Belleville", written by Richard Shafter, Federal founded the industrial site at the former Schaeffer property in 1916. The Mueller Map shows that Block 108, Lot 100 and 35 (now adjacent to Ideal) was being developed into the Sonnenborn Sons, Inc. "chemical works". The History of Belleville states that the Sonnenborn facility was involved in the production of paints, industrial finishes, white oil, petrolatums, floor hardeners and waterproofing agents. book also states that the Federal facility was originally a leather tanning facility until it added the production of artificial When the facility was destroyed during a 1924 leather in 1922. fire, it was rebuilt and exclusively devoted to the production of artificial leather.

The 1938 Sanborn Company Insurance Map of Belleville shows that Federal covered all of Block 56, Lots 5, 6, 7, 9 and 31. Sanborn Map shows that Federal contained a foundry, a wire rope factory, numerous solvent/fuel/naphtha tanks, a dye grinding shop, a lacquer storage facility, a varnishing and drying shop, a dope mixing shop, a chemical storage area, a dye house and a solvent recovery shop. A 1950 Sanborn Map of the Federal site documents that the facility had expanded into Block 108, Lots 10, 12, 20, 50, 60 and 62 by 1950, as supported by the New Jersey Department of Environmental Protection and Energy's (NJDEPE) Bureau of Field Operations - Site Assessment (BFO-SA) observations of aerial The 1959 NJID lists Federal photographs dated April 7, 1951. Industries, a Division of Textron Inc., at the same address as Federal and sharing the same company principals. indicated that Federal Industries produced the same products as Federal. By 1962, Federal was no longer listed in the NJID, and in 1963, Federal Industries became a division of Air Reduction Co. In the 1964 NJID, another division of ARC, Airco Plastic Products, was operating at the same address as Federal Industries, and was listed as producing the same products plus injection molded vinyl parts. By 1967, Federal Industries was no longer listed in the NJID, and Airco Plastic Products was replaced by Airco Chemicals and Plastics. The 1968 deed for the property documents

that ARC sold the site to the Belleville Industrial Center.

During a July 19, 1993 site investigation by BFO-SA, Captain Vicari of the Belleville Fire Department (BFD) stated that he was aware of a number of fires at the Federal facility during the 1960s. He recalled one relatively serious fire which occurred in a drying room and was accelerated by volatile compounds used in the process. Captain Vicari also stated that methyl ethyl ketone was dumped by employees who used the substance to wash parts. Files to support Captain Vicari's recollections were not viewed by BFO-SA personnel. However, files from the 1980s documented spills and fires at the a March 20, 1980 report of fire at Synfax site as follows: Manufacturing Co. which involved a "isoparaffinic petroleum solvent"; a June 29, 1981 report of fire at Ideal Plating and Polishing Co. involving three polypropylene vats, one of which was empty (contents of other two not discussed); a June 13, 1983 report of fire involving a wooden structure 100 feet east of building #36. The report noted that "young boys" were seen playing in the facility.; a June 20, 1983 letter which states that a fire department task force had inspected The Center and that BFD personnel had issued violation notices to The Center; and, an October 7, 1987 report of a diesel fuel spill at The Center which was absorbed with two bags of Speedy Dry.

The Center leases buildings to a variety of industries. Some of the former or current tenants have files with BFO. A partial list of current and former tenants are as follows: Display Corp.; Synfax Mfg. Inc.; Helion Industries, Inc.; G.E. Richards Graphic Supply; Techna Corporation; Compustruct, Inc.; Renaissance Flowers; Sun Chemical; Hytest; Tech Finishing Co.; and, Costa's Cabinets. On January 2, 1991, two soil borings of twenty feet each were completed at The Center.

Ideal has operated at building #40 within The Center since February 1979. The 1990 Business Journal's Directory stated that Ideal had sales between one and five million dollars in 1990 and that the president of Ideal was Mr. Ron Knigge. The 1992 Corfacts Directory of Manufacturing noted that a related facility, called Independence Plating, is operated in Paterson and engaged in the electroplating of aerospace and computer parts. The noted directory also lists Ideal as providing electroplating services for aerospace and computer industries. The New Jersey Industrial Directory indicates that Mr. Knigge became president of Independence Plating in 1985.

The Right to Know survey submitted by Ideal on February 16, 1993 states that the company has ten employees. The noted survey lists hazardous substances stored on site in terms of daily averages by weight. A partial list of same is as follows:

Material	Weigh	<u>t</u>	
Sodium Cyanide	100	-	1,000 lbs.
Cadmium Cyanide	100	-	1,000 lbs.
Copper Cyanide	10	-	100 lbs.
Silver Cyanide	10	-	100 lbs.
Potassium Cyanide	100	-	1,000 lbs.
Potassium Hydroxide	100	-	1,000 lbs.
Chromic Acid	10	_	100 lbs.
Acrylic Acid	100	-	1,000 lbs.
Hydrofluoric Acid	100	-	1,000 lbs.
Hydrochloric Acid	1,000	-	10,000 lbs.
Sulfuric Acid	100	_	1,000 lbs.
Phosphoric Acid	100	-	1,000 lbs.
Ethyl Diamine	10	_	100 lbs.
Methyl Alcohol	1,000		10,000 lbs.
Ammonium Fluoride	100	-	1,000 lbs.
Nickel Salts	1,000	-	10,000 lbs.

The NJDEPE's files on Ideal begin with the October 3, 1979 inspection of the facility by the Bureau of Air Pollution Control (BAP). Observations during that inspection led to the issuance of a December 17, 1979 Order to cease the use of air pollution control equipment without a certificate. In part, the Order noted the venting of a perchloroethylene vapor degreaser as a violation. On June 25, 1980, certificates were issued to Ideal by NJDEP. However, on January 26, 1984, Orders were again issued to Ideal by BAP for operating the vapor degreaser without the necessary certificate. Subsequent to observations during an August 10, 1984 field investigation by BAP personnel, an August 27, 1984 Notice of Prosecution (NOP) was issued to Ideal for the vapor degreaser violation. An October 5, 1984 investigation by BAP indicated that Ideal had substituted 1,1,1-trichloroethane in their degreaser.

After a March 8, 1985 letter from BAP disapproved Ideal's application to operate the perchloroethylene degreaser, an April 17, 1985 inspection by BAP revealed that Ideal had discontinued use of the degreaser and substituted an alkaline water based cleaning solution in its place. Inspections on November 11, 1991 and February 3, 1993 did not reveal violations by Ideal of air pollution regulations.

The BFO Metro Field Office (BFO-M) hazardous waste file revealed that in 1980, Ideal had filed with the US Environmental Protection Agency (USEPA) as a generator of hazardous waste. The documents submitted to USEPA indicate that Ideal began operations on December 29, 1978 as an industrial electroplater "of electronic components, primarily precious metals such as Gold & Silver." At the time, Ideal reported that they generated wastes including spent non-halogenated solvents, xylene, methyl alcohol and cyanide plating baths. However, the documents also note that Ideal intended to phase out cyanide related effluent.

In a November 15, 1982 letter from BFO-M, Ideal was notified that it must submit a hazardous waste annual report for its activities as a hazardous waste treatment, storage and disposal facility. An inspection by BFO-M on April 30, 1986 revealed that Ideal all of its wastes to Passaic Valley Sewerage discharged Commissioners (PVSC) pursuant to a valid permit and therefore should not be subject to hazardous waste generator and treatment requirements. By memo dated May 18, 1988, NJDEP's Bureau of Hazardous Waste Engineering indicated that it was prepared to exempt Ideal from hazardous waste regulations if said facility was declared an industrial waste management facility pursuant to N.J.A.C. 7:14A-4 et seq. Ideal submitted a notice of exemption to NJDEP for the 1990 reporting period for hazardous waste activities due to a lack of waste generated. In a letter dated June 29, 1991, Ideal notified NJDEP and PVSC of the levels of hazardous waste found in their wastewater. By memo dated August 13, 1991, NJDEPE concluded that Ideal should not be regulated pursuant to N.J.A.C. 7:26-1 et seq. The same memo describes the cyanide destruction treatment which all cyanide wastewaters from Ideal undergo prior to discharge to PVSC.

By letter dated September 14, 1992, BFO-SA requested that Ideal conduct an investigation of the facility and property it controls. By letter dated October 14, 1992, Ideal informed BFO-SA that there have been no discharges or violations at the facility and they would therefore not conduct a investigation.

On June 7, 1993, an inspection of Ideal was conducted by BFO-SA. Touring the site with BFO-SA was the Chemist for Ideal, Mr. Vincent Elkind, who described the origin and destination of waste streams produced by Ideal and who provided the undated portion of a Sanborn Map of the facility. Mr. Elkind stated that in terms of the waste stream produced by the facility, the predominant contaminants are tin, lead, copper and nickel. The minor components of the waste stream are zinc, cadmium, silver, gold and chromium. Per Mr.

Elkind, raw materials as noted above are mixed in open vats to produce numerous plating solutions, or pre-mixed solutions are simply added to the vats. Metallic parts are then dipped into the vats to achieve a plated product. As the parts are retrieved from the vats, solution is dripped on floors and various appurtenances to the production line. Any such dripping or other spills which do not evaporate will flow to a central trench which runs most of the length of building #40. The trench, which is partially filled with a fine, light colored precipitate from production, has never been inspected or cleaned since the start of operations according to Mr. Elkind. Limited probing of the trench with an auger indicated that the trench bottom was corroded but intact. Per Mr. Elkind, all waste solutions are discharged to the trench, which passes through a concrete pit prior to discharge to the Passaic Valley Sewerage In accordance with the PVSC Commissioner's facility (PVSC). discharge permit, the pit is sampled by automated devices for metals, pH, cyanide and other parameters. Mr. Elkind stated that Ideal was in compliance with the noted permit and that no other wastes are generated. This assertion is supported by Mr. Tom Mack, of PVSC, who stated that Ideal was not a problem facility.

Also observed during the noted inspection, in the southernmost portion of building #40, was an open drum of hydrochloric, acid at a section of a badly corroded concrete floor which still seemed intact. BFO-SA personnel also observed a green solution which had flooded a section of the floor due to a spill of nickel solution The spill had entered building 39A which from a ruptured drum. contained a drum of potassium cyanide. Outside the facility, four full drums were observed at the site of a oil spill to macadam. Of the four drums, only one was marked. The noted drum, which was covered in oil, had "slushing oil" scrawled on it. At the southern extent of building #40, a spill of automotive waste oil to soil was observed at the fence which separates The Center from the railroad tracks. Oil filters were observed on both sides of the fence. Finally, a powder-like particulate was observed in a graveled lot between building #40 and a quonset hut.

During the July 19, 1993 inspection by BFO-SA, the graveled lot next to the quonset hut was observed again as were soils at other locations. It was noted that the soils in other locations contained a large amount of dry, very fine particulates with no cohesion. A conversation with Mr. Elkind and Mr. Thompson of Ideal during the July 19, 1993 inspection did not explain how Ideal obtained an underground storage tank number, although they speculated that it may be for the above noted concrete pit. Mr. Elkind stated that one of the courtyards between building #40 and building #42 could only be accessed by a window and that the large one was accessible by a door.

Inspection of the large courtyard revealed that it was graveled, but had 2 inches of leaf litter over most areas. A number of empty blue plastic jugs and numerous empty 5 gallon roof tar pails were strewn in the courtyard, some partially covered with leaf litter. One of the blue plastic jugs bore Ideal's name. Two unmarked drums

were observed next to a cast iron grated drain in the middle of the courtyard. A 1 inch diameter steel pipe was observed with it's discharge end oriented down through the grate. The pipe extended from the grate to the eastern wall of building #40 and extended hence along said wall towards the north end of building #40 for about 30 feet at which point it ended with a 90 degree turn upward and the last fitting being half of a union. Approximately 20 feet north of the end of the noted pipe, a larger steel pipe extended from Ideal and was oriented downward. Another pipe was observed extending from a building between Ideal and building #42. This pipe was 1 inch in diameter, was oriented downward and was discharging a colorless liquid with no odor. Five small test pits were dug by shovel in the courtyard. One was located in the drain and encountered 2 feet of leaf litter and soil before encountering a green/blue material and a tan, grease-like substance in the last 3 inches above the flat, hard bottom of the drain. Directly next to the drain, an empty 55 gallon drum lay on its side. drum, the soil and gravel was observed to have a green/blue color. The other location where green/blue color was observed was near the In one location examined, the leaf door which led into Ideal. litter was absent and the soil was dry. The soil associated with this dry spot was powder-like and not cohesive.

During the July 19, 1993 inspection, BFO-SA personnel interviewed Mary Quartarolo, Property Manager for the Arbor Hills residential units adjacent to The Center. According to Ms. Quartarolo, the entire residential property is owned by 432 Owners Inc. which retains Ms. Quartarolo's employer, Wellsley Property Management, Inc. to manage the common grounds of the property. Ms. Quartarolo stated that the site was developed into apartments about 20 years ago and changed to privately owned co-ops about six years ago. The aerial photograph observations by BFO-SA revealed that condominiums were built on the Sonnenborn site between May 14, 1971 and 1974.

Finally, a sketch was viewed during the July 19, 1993 inspection. The sketch (a site plan for The Center) was dated July 10, 1968 and drawn by J. Thomas Camlet & Sons of Clinton, New Jersey. It depicted a pump house on the east side of Main Street and made the following statement: "agreement for use of Passaic River water four outlet sewers to Passaic River."

PART III: PERMITS

A. NJPDES

There is no NJPDES permit listed for this facility.

B. New Jersey Air Pollution Control Certificates

Plant ID No.: 05980

No. of Certificates: Two: 046977 & 046978 Equipment Permitted: Seven Exhaust Fans

C. BUST Registration

NJDEPE's Bureau of Underground Storage Tanks (BUST) records a tank registration number of 0150077 for Ideal, but records show that Ideal has no tanks. A BUST representative has explained that this is most likely due to the registration of non-regulated tank(s) by Ideal.

D. Other Permits

Agency Issuing Permit	Type of Permit	Permit No.	Date <u>Issued</u>	Expiration <u>Date</u>
Passaic Valley Regional Sewerage Commissioners	Industrial sewer discharge	01403600	10/20/86	Current

PART IV: GROUNDWATER ROUTE

A. HYDROGEOLOGY

Describe geologic formations and aquifer(s) of concern. Include interconnections, confining layers, discontinuities, composition and permeability.

The site lies within the Piedmont Plateau, of the Appalachian Province. The Piedmont Plateau becomes a plain as it approaches the Essex County area, and in the vicinity of Belleville, it falls The subject site is approximately 1,100 feet from to sea level. the Passaic River and lies on a slope of approximately 5 percent. It is between 20 and 60 feet in elevation above mean sea level. The site is located in Belleville, which rests on three layers of sedimentary rock of Triassic age which are collectively known as the Newark Group. The Brunswick Formation, which is the uppermost layer, is predominated by red shale but includes sandstone and conglomerate. Prior to the last set of glacial advances into New Jersey, faulting of the Newark group created numerous ridges. The erosion of these features produced a system of valleys. During the Pleistocene glacial advances, vast amounts of glacial and fluvial sediments were deposited in these valleys, creating the unconsolidated deposits which have been described along the Passaic river adjacent to Ideal. The sediments, which are composed of clay, sands, gravel and boulders, can be found in stratified or unstratified conditions. Overlying this glacial drift in some areas are recent alluvial deposits or meadow mat. At the site, BFO-SA personnel observed silt to very fine sands at the surface. These soils would tend to have a relatively low permeability.

Depth to aquifer of concern: 20 feet
Thickness of aquifer: Unknown

Direction of groundwater flow: East

Karst (Y/N): No

Wellhead Protection Area (Y/N): No

B. MONITORING WELL INFORMATION

Although two borings were completed at this site, there are no monitor wells installed at this site.

C. POTABLE WELL INFORMATION

Identify all public supply wells within 4 miles of the site:

Water Company	Distance from site (miles)	Depth (feet)	Formation
Bloomfield Town	2.7	380	Brunswick
Wallington Boro	3.6	400	II.
Wallington Boro	3.5	503	11
Wallington Boro	3.5	504	£f
Montclair Town	3.7	300	11
Montclair Town	3.8	300	11
Glen Ridge Water			
Department	3.3	400	tt

Discuss private potable well use within 4 miles of the site. Include depth, formation and distance, if available.

Potable water within Belleville and Bloomfield is supplied by Newark which obtains its water from the Pequannock system of reservoirs. Potable water used in Glen Ridge and Montclair is from the above noted Montclair wells, which are within 4 miles of the subject site. Montclair also sells its treated water to the West Caldwell franchise of New Jersey American Water Company. Wallington Borough does not use its wells but has an agreement with The Passaic Valley Water Commission (PVWC). All PVWC water is derived from surface water. Mountainside Hospital in Glen Ridge also has a well which serves hospital staff and patients only. The well is approximately 350 feet deep.

<u>Distance (mile)</u>	<u>Population</u>
0 - 1/4	0
1/4 - 1/2	0
1/2 - 1	0
1 - 2	0
2 - 3	90,000
3 - 4	160,000

Discuss any evidence of contaminated drinking water or wells closed due to contamination.

The Bloomfield well noted above is reportedly not in use due to unacceptable cloudiness. The Montclair wells are impacted by an unknown source of volatile organic compounds, but analytical monitoring has demonstrated that Montclair's treatment system achieves regulatory quality standards. The Glen Ridge well is not in use due to trichoroethylene contamination. The Mountainside

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Distance (mile)	opulation
0 - 1/4	0
1/4 - 1/2	0
1/2 - 1	0
1 - 2	0
2 - 3	90,000
3 - 4 1	60,000

Discuss any evidence of contaminated drinking water or wells closed due to contamination.

The Bloomfield well noted above is reportedly not in use due to unacceptable cloudiness. The Montclair wells are impacted by an unknown source of volatile organic compounds, but analytical monitoring has demonstrated that Montclair's treatment system achieves regulatory quality standards. The Glen Ridge well is not in use due to trichoroethylene contamination. The Mountainside

well is impacted by Trichloroethylene at concentrations below regulatory quality standards. All wells in Wallington Borough have been shut down due to Trichloroethylene and Tetrachloroethylene contamination. The Superintendent of Public Works in Wallington Borough stated that local officials suspect the contamination originated from sites other than the subject site.

Identify industrial/irrigational wells within the vicinity of the site. Include depth, formation, distance and direction, if available.

There are numerous industrial wells in the vicinity of this site. See map 5, Water Withdrawal Points.

D. POTENTIAL

Discuss the potential for groundwater contamination, including any other information concerning the groundwater contamination route.

Due to the actual impacts noted above, this field was not assessed.

PART V: SURFACE WATER ROUTE

A. SURFACE WATER

Does a migration pathway to surface water exist (Y/N):

Yes. Run-off from this facility can enter the Passaic River via storm drains.

Flood plain: greater than 500 years Slope: Five percent

Does contaminated groundwater discharge to surface water? Unknown.

Identify known or potentially contaminated surface water bodies. Follow the pathway of the surface water and indicate all adjoining bodies of water along a route of 15 stream miles.

The site is adjacent to the Passaic River which has received discharges from many industrial and domestic sources since the beginning of the industrial revolution. The 1968 site plan noted in Part II of this report indicates that there were discharges from The Center to the Passaic. The Passaic River extends south for approximately 8 miles prior to discharging to Newark Bay. The Passaic is adjoined by the Second River near the boundary between Belleville and Newark.

Identify drinking water intakes within 15 miles downstream (or upstream in tidal areas) of the site. For each intake identify the distance from the point of surface water entry, the name of the supplier and population served.

According to the March 1992 Surface Water Intake Locations by the

well is impacted by trichloroethylene at concentrations below regulatory quality standards. All wells in Wallington Borough have been shut down due to trichloroethylene and tetrachloroethylene contamination. The Superintendent of Public Works in Wallington Borough stated that local officials suspect the contamination originated from sites other than the subject site.

Identify industrial/irrigational wells within the vicinity of the site. Include depth, formation, distance and direction, if available.

There are numerous industrial wells in the vicinity of this site. See map 5, Water Withdrawal Points.

D. POTENTIAL

Discuss the potential for groundwater contamination, including any other information concerning the groundwater contamination route.

Due to the actual impacts noted above, this field was not assessed.

PART V: SURFACE WATER ROUTE

A. SURFACE WATER

Does a migration pathway to surface water exist (Y/N):

Yes. Run-off from this facility can enter the Passaic River via storm drains.

Flood plain: greater than 500 years Slope: Five percent

Does contaminated groundwater discharge to surface water? Unknown.

Identify known or potentially contaminated surface water bodies. Follow the pathway of the surface water and indicate all adjoining bodies of water along a route of 15 stream miles.

The site is adjacent to the Passaic River which has received discharges from many industrial and domestic sources since the beginning of the industrial revolution. The 1968 site plan noted in Part II of this report indicates that there were discharges from The Center to the Passaic. The Passaic River extends south for approximately 8 miles prior to discharging to Newark Bay. The Passaic is adjoined by the Second River near the boundary between Belleville and Newark.

Identify drinking water intakes within 15 miles downstream (or upstream in tidal areas) of the site. For each intake identify the distance from the point of surface water entry, the name of the supplier and population served.

According to the March 1992 Surface Water Intake Locations by the

NJDEPE's Bureau of Safe Drinking Water, there are no downstream surface water intakes in the Passaic River.

Briefly discuss surface water or sediment sampling conducted in relation to the site. Discuss visual observations if analytical data is not available (include date of observation). Include surface water body, sampling date, sampling agency or company, contaminant.

This review did not discover surface water or sediments sampling relative to this site.

Discuss the potential for surface water contamination, include any additional information concerning the surface water route.

Surface water contamination may occur during fires due to runoff, or due to spills to the storm drain system.

B. SENSITIVE ENVIRONMENTS

Identify all sensitive environments, including wetlands, along the 15 stream-mile pathway from the site:

According to the United States Fish and Wildlife Service Wetlands Inventory maps, the subject section of the Passaic River has estuarine intertidal flats and sub-tidal open water.

PART VI: AIR ROUTE

Discuss observed or potential air release.

There are cyanides and acids at Ideal which pose an air release threat in the event of a fire. There are vapors of methyl alcohol and various plating solutions which are discharged to the atmosphere daily under the noted BAC certificates.

Populations that reside within 4 miles of the site.

Distance	(mile)	<u>Population</u>
0 -	1/4	2,500
1/4 -	1/2	5,000
1/2 -	1	10,000
1 -	2	40,000
2 -	3	90,000
3 -	4	160,000

Identify sensitive environments and wetland acreage within 1/2 mile of the site.

The site, which is adjacent to the Passaic River, could pose a threat to riverine and estuarine inhabitants of the river and its tidal flats.

PART VII: SOIL EXPOSURE

Describe soil type. Include soil series, makeup of the soil and permeability of the soil.

The surface soil in the Newark area is primarily comprised of glacially derived sediments. The soils at this site are tan to red and primarily a silt with very fine sand. This is indicative of weathered rock from the Brunswick Formation which has a low permeability.

Briefly discuss contaminants identified in the soil. Include sampling date, sampling agency or company, sample locations, depth and contaminant level.

There is no known soil sampling results.

If no soil sampling has been conducted, discuss areas of potentially contaminated soil, areas that are visually contaminated or results from soil gas surveys.

Surface soil has visual characteristics which indicate waste oil and plating bath spillage. In the case of the waste oil, automotive oil filters were observed in close proximity, supporting the conclusion that waste oil was discharged. In the case of the suspected plating bath discharges, the conclusion that discharges have occurred is based upon similar color and the presence of raw materials containers in the courtyard. The dust-like condition of the soil next to the quonset hut it suspected to be due to silt characteristics rather than indicative of sludge disposal.

Number of people that occupy residences or attend school or day care on or within 200 feet of the site:

600 people
Number of workers on or within 200 feet of the site: 150 workers

Does a subsurface gas threat exist? (Y/N): No. Relative to the materials used by Ideal, the potential for such a threat does not exist.

PART VIII: DIRECT CONTACT

Describe accessibility of the site (fencing, site security, evidence of unauthorized entry).

The site is active and completely fenced, but a gate to the railroad tracks was observed to be open during the July 19, 1993 inspection. Unauthorized access to the site is likely in light of the noted June 13, 1983 fire report which documented "young boys" on-site.

Number of on-site employees: Ten

PART IX: FIRE AND EXPLOSION

Discuss all incidents on site which have involved a fire or explosion. Indicate the date of the incident and the materials involved.

There is one known incident of fire at Ideal as noted in Part II of this report as follows: June 29, 1981 report of fire at Ideal Plating and Polishing Co. involving three polypropylene vats, one of which was empty (contents of other two not discussed).

Discuss site conditions which indicate a potential exists for fire or explosion (reactivity, incompatibility, ignitability, storage practices, container condition).

The potential for fire is significant due to the presence of flammable substances and heating elements for plating solutions. This was the cause of the above noted 1981 fire.

PART X: ADDITIONAL CONSIDERATIONS

Discuss evidence of wildlife or vegetation that has been or could be potentially impacted by on-site operations. Include areas exhibiting stressed vegetation or damage to wildlife.

Aside from the potential surface water and estuarine species, the area (located in an industrial setting) has no wildlife, crop or forest environments to impact.

Determine if a contaminant on site displays bioaccumulative properties. Name all bioaccumulative substances that may impact the food chain.

There are no known bioaccumulative contaminants.

Discuss observed or potential damage to off-site property. Consider migration routes from the site to an off-site property via soil, air or runoff.

Aside from the threat of cyanide or other degeneration compounds to neighbors in the event of a fire or accident, Ideal does not pose a threat to damage off-site property via soil, air or runoff.

PART XI: PREVIOUS OR ONGOING REMEDIAL ACTIONS

Discuss for each media all previous and ongoing remedial activities at the site. Include why initiated, type of action, date and present status.

There have been no known remedial activities taken by Ideal.

PART XII: ENFORCEMENT ACTIONS

1. Type of enforcement activity:

Issuing agent:

Date:

Description of Violation:

Followup activity:

Issuing agent:

Date:

Description of Violation:

2. Type of enforcement activity:

Order to cease operation of equipment without permit

Order to cease operation of equipment without permit

Bureau of Air Pollution Control

operation of equipment without

Bureau of Air Pollution Control

January 26, 1984

December 17, 1979

Certificates Issued

operation of equipment without

permit

permit

Followup activity: Process change by Ideal achieved compliance.

3. Type of enforcement activity:

Issuing agent:

Date:

Description of Violation:

Followup activity:

Notice of Prosecution for

operating equipment without permit Bureau of Air Pollution Control

August 27, 1984

operation of equipment without

permit

Penalty paid. No Further Action.

PART XIII: CONCLUSIONS AND RECOMMENDATIONS

Ideal has apparently contributed to soil contamination at The Center. The contamination appears to be limited to the courtyard, which is very isolated, and therefore the direct contact threat in this instance is very low. The apparent discharge to the courtyard drain would appear to be the most serious contamination threat.

However, it is suspected that more widespread contamination may exist at The Center and the neighboring Arbor Hills from the described industrial activities beginning at the early part of this It is therefore recommended that any site investigation sampling at Ideal proceed under a unified sampling event for The Center. It is also recommended that a Preliminary Assessment be conducted for the former L. Sonnenborn and Sons, Inc. site.

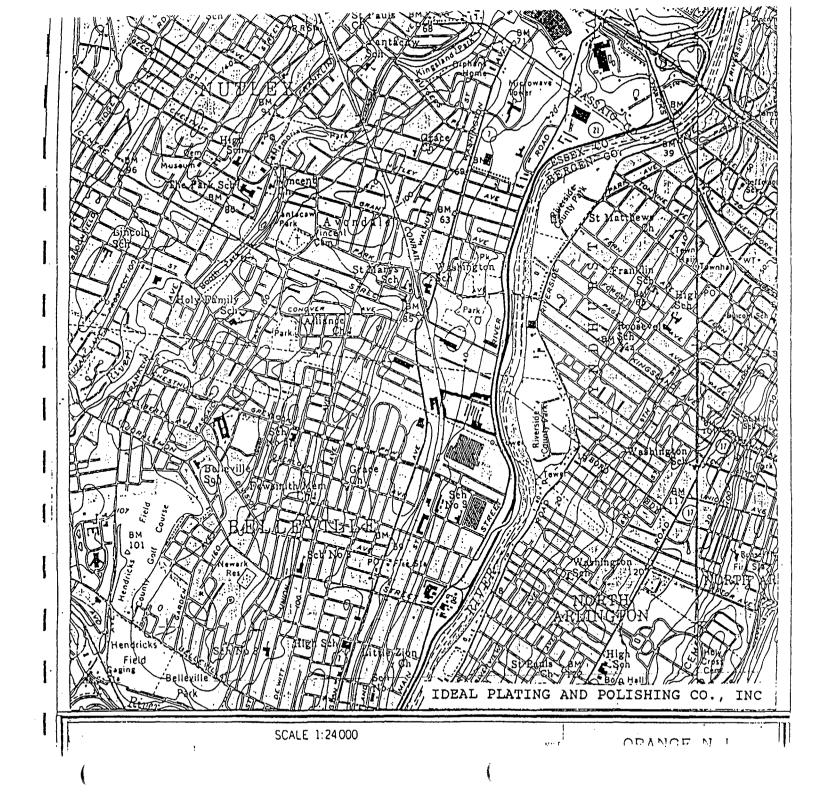
Submitted by: Nick Sodano

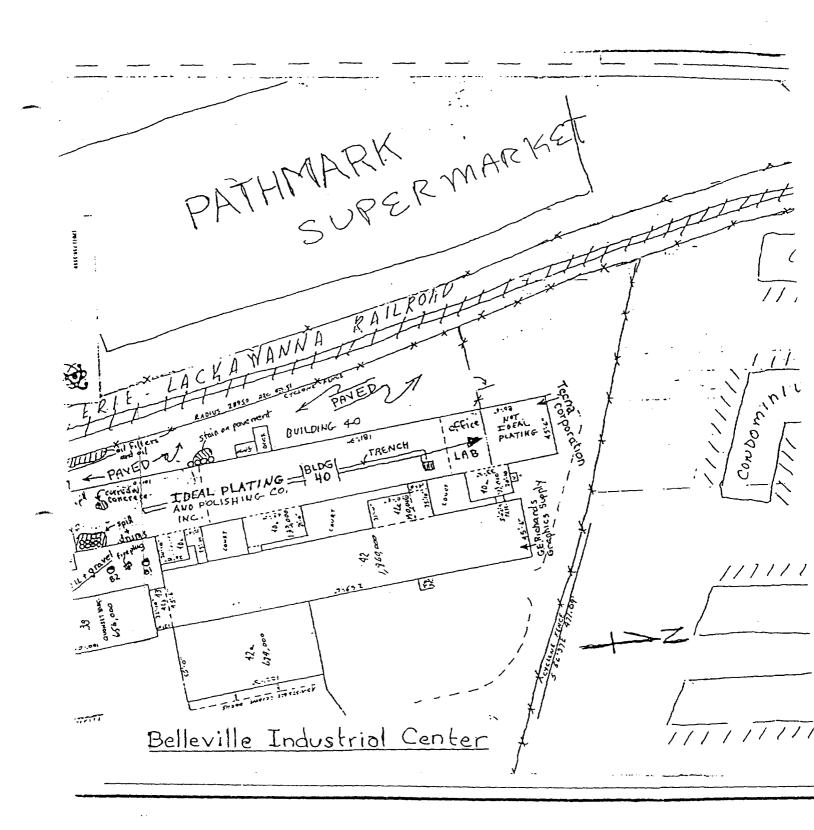
Hazardous Site Mitigation Specialist II

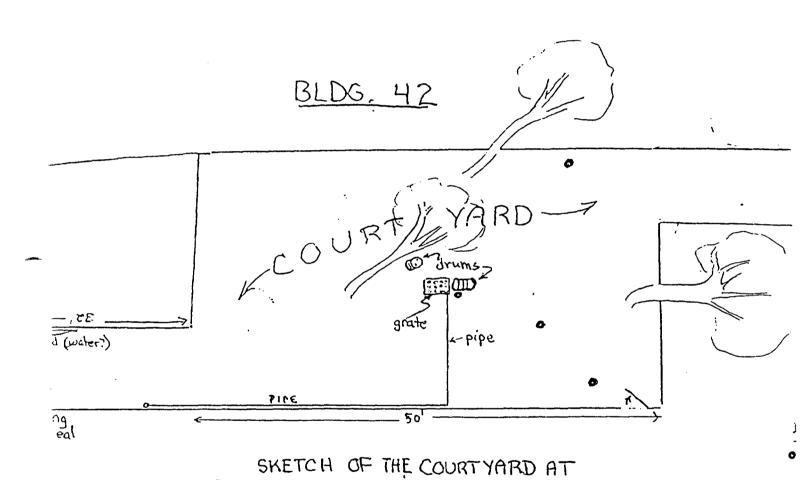
NJDEPE, Bureau of Field Operations - Site Assessment Section

July 28, 1993

MAPS





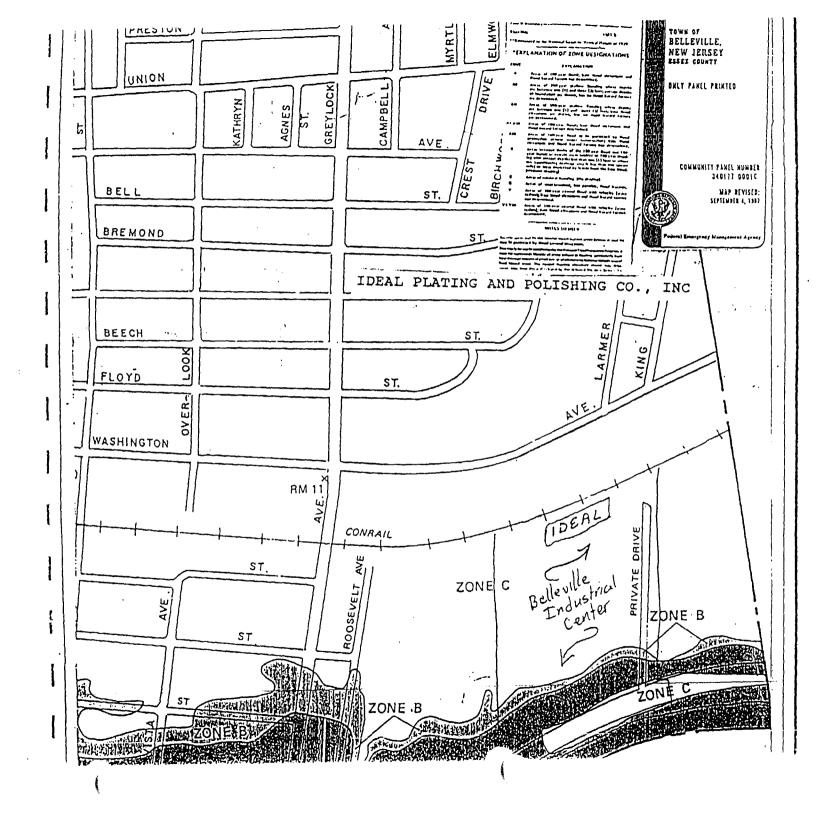


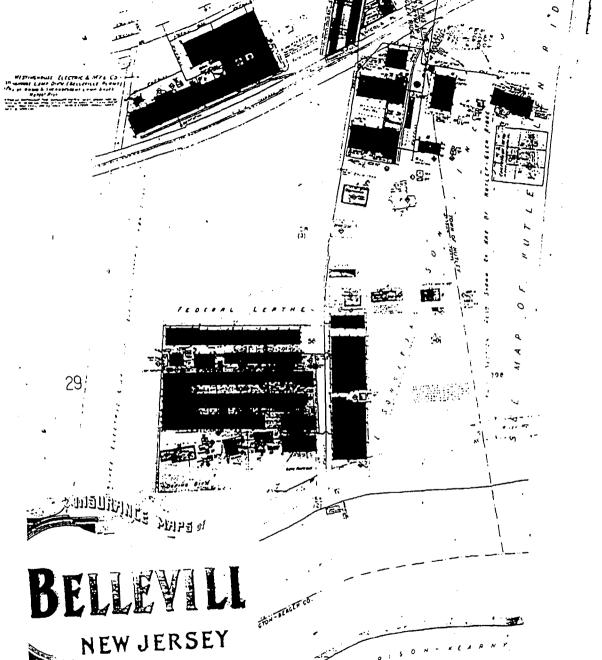
IDEAL PLATING AND POLISHING

INSPECTION

7-19-93









POPULATION: 30,000

Prevailing Winds:-Northwest.

PAVING:—45 miles of paved streets.
GRADES:—Slightly rolling.

WATER FACILITIES

Municipally owned. Supply obtained from City of Newark. (For detailed report on facilities see Newark, N. J., Vol. 1). System divided into high and low services. Low Service supplied through two 12" connections from the City of Newark's Belleville Reservoir, elevation 165', capacity 14,000,000 gallons. High Service supplied through six 6" or 8" connections from Macopin Intake (42" reducing to 86") and the Newark 86" high service main. Section south of Newark Ave. (Silver Lake) supplied directly from City of Newark distribution system.

55 miles of 4" to 16" water pipe. 498 double and triple hydrants. Average daily consumption 2,000,000 gallons. Average pressure 60 lbs. Pressure at Belleville and Washington Aves. 84 lbs.

FIRE DEPARTMENT

Partly paid consisting of 1 chief, 2 battalion chiefs, 2 lieutenants and 19 men. 20 volunteers. 8 stations.

1 Day-Elder service truck with 264' of ladders 1 Day-Elder hose wagon with one 85 gallon chemical tank, 200' hose and 1,100' 24" hose. 1 Day-Elder hose wagon with one 150 gallon booster tank, 250' hose and 1,100' 24" hose. 1 Seagrave 750 gallon per minute pumper with one 80 gallon booster tank, 200' hose and 1,000' 24" hose. 1 American-LaFrance 500 gallon per minute pumper with one 100 gallon booster tank, 200' hose and 1,000' 24" hose. 1 Seagrave 500 gallon per minute pumper with one 100 gallon booster tank, 200' hose and 1,000' 24" hose. 8,000' 24" hose in reserve.

Gamewell fire alarm system. 59 boxes. Headquarters located at Fire Station No. 1 at 117 William St., in one-story brick addition. Alarm also by telephone.

No Fire Limits. No Fire-resistive Roofing Ordinance.

una Vertical steam exO Gasoli it electric plant hemical sprinklers. prinklers in part of building only Referen . Pre entine hou 85 shown on ki IOX. (Fire pump.

lows with wired elass

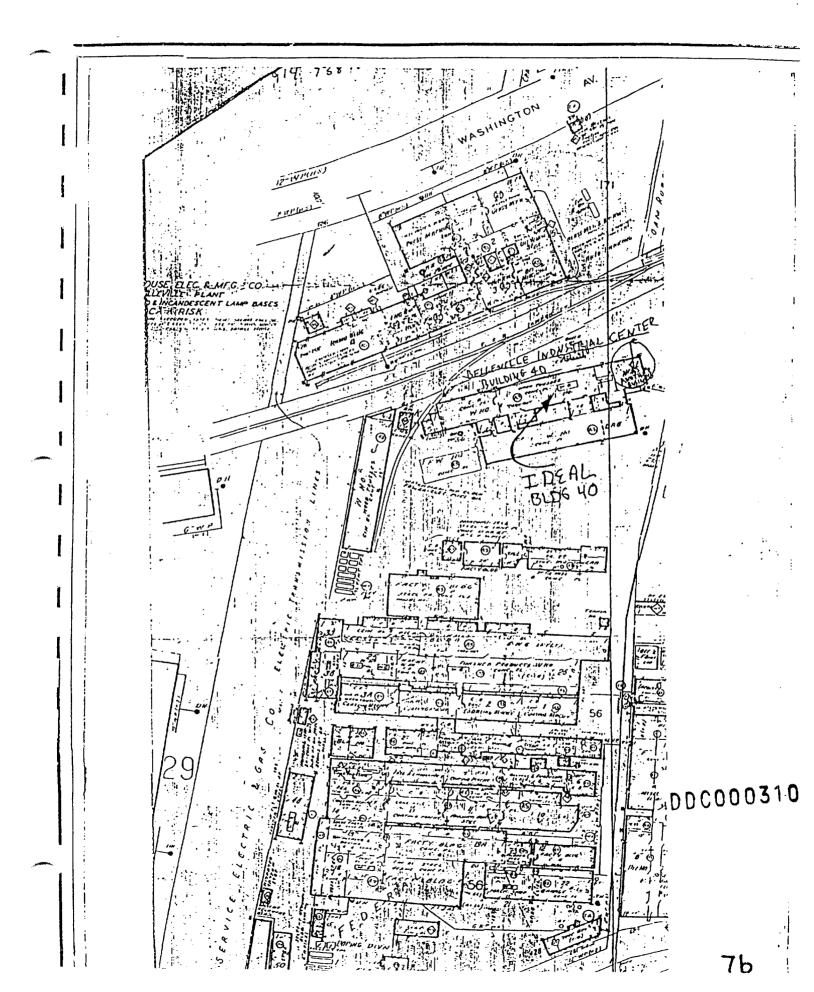
openings tenthito

second stories.

is with Iron or the clad shulle

DDC000309

It electric plant. Slamese conne prinklers. Ho Single fi hemical sprinklers. In part of building only resource a source a sourc



PART XIV: POTENTIALLY RESPONSIBLE PARTIES

OWNER/OPERATOR/
NAME KNOWN DISCHARGER CURRENT ADDRESS

Ronald Knigge Operator 681 Main Street

Known Discharger Box 100
Belleville, NJ 07109

Lynn Clurman Owner 681 Main Street Belleville, NJ 07109



September 10, 1996

Emergency & Remedical Response Division Attn: Mr. Lance R. Richman P.G. U.S. Environmental Protection Agency 290 Broadway 19th Floor New York, NY 10007-1866

SEP 1 6 1996

Dear Mr. Richman:

As requested in Mr. Caspe letter re: "Request for Information, Diamond Alkali Superfund Site, Passaic River Study Area" received by this office August 28, 1996, you will find attached Helion Industries, Inc. responses with supporting attachments.

As requested, a copy including attachments, is being sent to Ms. Amelia Wagner, Asst. Regional Counsel, Office of Regional Counel, 17th Floor of the same address.

I have answered to the best of my knowledge all questions within the survey request completely and accurately to the extent that is required.

Sincerely,

HELION INDUSTRIES, INC.

G. Ross Hirtzel

Vice-President of Operations

GRH/kp encl:

DDC000020

848630001

HELION INDUSTRIES INCORPORATED • 681 MAIN STREET • BELLEVILLE, NEW JERSEY 07109 • (201) 759-0200

RESPONSE TO 4 (a)

Helion manufactures WATER BASED MIXTURES containing various organic and in-organic salts some of which are hazardous by regulation. The primary hazard components in these materials are Caustic or Acidic. Although the final product may contain a hazard, it may not be classified as hazardous because of the low quantity of the hazard component it contains and because-it passes the corrosivity test criteria. These processes do not result in a by-product. The residual product that remains after completion of packaging amounts to between 1% - 2%. The disposition of this residual is passed to sanitary sewer as part of the wash water used to flush the mixing and packaging system (Rate = 1:100 residual to wash water). This phase of our operation represents 80/85% of our production. In addition to this primary activity, Helion also makes blends of press washes by mixing 2-4 components of petroleum hydrocarbous and naptha solvents - Here again, there are no by-products, and the resultant mixtures are completely packaged as finish goods.

The vessel used for blending is not washed since it is dedicated to these products, each of which is compatable one to the other. This represents 8% of our production.

Helion also re-packages products from drum containers into smaller containers for re-sale. This represents 7% of our production.

RESPONSE TO 4 (b) (1,11,111)

Helion's production operation described in (4a) does not generate any of the substances listed in (3) nor does it generate any other hazard substance.

We purchase the basic virgin chemicals used in our mixtures, and the nature of the final mix is determined by the nature (hazard; non-hazard) of the purchased elements that make up the mixture. The mixture may or may not be hazardous depending upon the quantity of a hazard component that makes up the mixture. This varies from mixture to mixture starting at 0% up to 100% (repackaged VM+P Naphta as an example).

None of our products are made from waste product.

RESPONSE TO 5 (a), (b)

Helion does not treat, collect, store, or have need to dispose of hazardous product, by-product, or waste. We package all we manufacture as finished goods and as previously noted residual products of the mixtures are disposed of during wash up to sanitary, therefore (5 a,b) do not apply.

RESPONSE TO (5c,1,11)

With respect to storage practises (5ci,11), Helion stores all raw materials, packaging, and finished goods under cover within the confines of the buildings it leases. Hazardous products are stored by type (Alkaline, Acidic, Oxidizer, Flammable) one from the other. Packaging of hazardous products that are purchased are specified to be in HAZMAT Certified packaging so designated.

Continued on page 2

DDC000021

RESPONSE TO (5c,i,ii) (cont.)

Mixtures manufactured by Helion that are hazardous, are packaged in accordance with HAZMAT Regulations and the packaging is so designated.

We do not have nor use any off-site storage facilities. Full products are not stored outside. Empty drums are closed and stored outside under cover, on an elevated concerete platform, behind a cyclone fence.

RESPONSE to 5d

Does not apply - We do not generate Waste. Any return of finished goods products from Customer are re-blended into our virgin mixtures.

RESPONSE TO 6a

- (i) Process Waste Water is discharged to Sanitary sewer.
- (ii) Yes. Process waste water consists of residual product that is rinsed with clean tap water at the rate of 1 part: 100 parts (residual to rinse).
 - (iii) Always discharged to Sanitary Sewer.
- (iv) To the best of my knowledge there have been no independent analysis report of the waste stream, although Passaic Valley Water Co. has tested the storm drains and our Sanitary sumps but we have never received a report either positive or negative. The process wash water which we discharge to sanitary has never been analyzed since at the rate of residual product to wash water (1:100), the Ph is probably neutral and as previously mentioned the hazards involved in the process are alkaline or acidic salts and the mixture Ph's are 5.3 to 10.8 on average. With respect to Solvent hazards, they are packaged in their entirety and since the mix vessels are dedicated and used for compatable products we do not wash.

RESPONSE TO 6b

- (i) Floor drains and sumps within the operating facilities always were connected to sanitary sewer.
 - (ii) Not applicable, see (L)

RESPONSE to 6c

(i) There are storm sewers and catch basins outside of the facilities we lease, on the common elements of the complex and have existed as they are today since Helion occuppied its leased facilities (1975). There are no lagoons.

Continued on page 3

848630003

RESPONSE TO 6c (cont.)

- (ii) I do not know if the catch basins were or are non lined. I do know that they are not directly exposed to "earth" material. If brick and morter or concrete are considered by you as lining, then, yes they are lined.
 - (iii) Not applicable No lagoons.
 - (iv) Not applicable No lagoons.

RESPONSE TO (6d)

Helion has no specific knowledge or official notification of such an occurence. The buildings that we occupy and lease are part of an industrial complex under the ownership of Belleville Industrial Center. Within the confines of our facility, there are no storm drains. Exterior to our facility and throughout the common elements of the total complex there are several storm drains and basins that handle run-off from all other areas of the complex.

RESPONSE TO (6e)

. There are none to the best of my knowledge. This question should also be directed to the Belleville Industrial Center's landlord.

RESPONSE TO (7a)

We do not generate hazardous substances. We purchase various hazards and use them in our mixes as part of the final product we sell. None of this product results in a waste, hazardous or non-hazardous.

RESPONSE TO (7b)

None generated; none disposed of into the Passaic River.

RESPONSE TO (8a)

There have been no spills, leaks, explosions, fire or other incidents of accidental material discharges that would have resulted in discharge into the Passaic River, sanitary sewer, or storm sewer involving Helion Industries.

RESPONSE TO (8b)

No incidences, therefore no sampling prior to or after clean-up.

Continued on page 4

848630004

RESPONSE TO (9a,1,11)

No flood incidences have occurred in Helion facilities as a result of sanitary or storm sewer back-up or from Passaic River overflow.

RESPONSE TO (9b)

Not Applicable

RESPONSE TO (10)

No civil, criminal, or administrative proceedings for violations of local, State, or Federal regulations pertaining to water or air pollution or hazardous waste generation, storage, transport, or disposal.

RESPONSE TO (11)

Helion purchases and uses hazardous substances of the types listed under (3) and as use described under (4). These are <u>purchased</u> from various suppliers through our company purchase order system (copy attached), used in our batch mixes (a typical one is attached) and inventory controlled through our computer generated Stock Status report (copy attached).

RESPONSE TO (12a,&12b)

Yes. Air samplings were made in response to an employee complaint to OSHA. Documents pertaining to those samplings are attached.

RESPONSE TO (13a,&13b)

Helion leases the facility from Belleville Industrials Center from 1975 to date. Leases and lease modification/addendums attached.

RESPONSE TO (13c)

Helion has no access to or specific knowledge of previous owners or tenants from the period of 1940 to present. This information may be supplied by the current owner Belleville Industrial Center.

Continue on page 5

848630005

RESPONSE TO (14)

- (a) Helion Industries, Incorporated
- (b) Robert Denehy, President & Owner 770 Rose Ranch Road San Marcos, CA 92069 (619) 591-9901
- (c) Charles N. Bieber, Executive Vice-President & Owner 24 Graham Terrace Saddle Brook,, NJ 07662 (201) 796-0067
- (d) Attached
- (e) Not an Affiliate or Subsidiary of another Company nor does Helion have any Subsidiaries, nor is it a successor to another Company.
- (f) Not Applicable
- (g) None
- (h) Not Applicable
- (1) None

RESPONSE TO (15)

Ross Hirtzel, Vice-President of Operations 11 Hillside Place Cranford, NJ 07016 (908) 276-0061

CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

State	OI	New Jersey :	
•			
		•	

County of Essex

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document (response to EPA Request for Information) and all documents submitted herewith, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete, and that all documents submitted herewith are complete and authentic unless otherwise indicated. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. I am also aware that my company is under a continuing obligation to supplement its response to EPA's Request for Information if any additional information relevant to the matters addressed in EPA's Request for Information or the company's response thereto should become known or available to the company.

Charles N. Bieber
NAME (print or type)

Executive Vice-President TITLE (print or type)

SIGNATURE

Sworn to before me this day of // // , 1996

Notary Public

CLEMENTINA RUBINO NOTARY PUBLIC OF NEW JERSEY My Commission Expires May 14, 1997

DDC000026

ATTACHMENT A

REQUEST FOR INFORMATION

Background

The United States Environmental Protection Agency ("EPA") is investigating the release of hazardous substances into the Passaic River. EPA has information indicating that hazardous substances from your facility located at 681 Main Street in Belleville, New Jersey may have been discharged into the Passaic River.

Please provide the information requested below, including copies of all available documentation that supports your answers.

- 1) How long has your company operated at the facility designated above? If your company no longer operates at this facility, during what years did your company operate at the facility? Since June 1975
- 2) a) Does your company have or has it in the past had a permit or permits issued pursuant to the Resource Conservation and Recovery Act, 42 U.S.C. §6901 et seq.? If "yes", please provide the years that your company held such a permit and its EPA Identification Number. NO. NAVE NEVEL HELD SUCH PERMITS.
- b) Does your company have or has it in the past had a permit or permits issued pursuant to the Federal Water Pollution Control Act, 33 U.S.C. § 1251, et seq.? If "yes", please provide the years that your company held such a permit. No. HAVE NEVEL HELD SUCH PERMITS.
- 3) Did your company receive, utilize, manufacture, discharge, release, store or dispose of any materials containing the following substances:

Arsenic Cadmium Chromium (AS A HEXAVALENT Compound Sopium BICHEOMOTE) Copper Lead		Yes	NO
Polyaromatic Hydrocarbons (SEF ATTACHMENT) If "yes", please list specific compounds. Toluene Xylene PCBs Arsenic Cadmium Chromium (AS A HEXAVALENT Compound Sopium BICHEOMOTE) Copper Lead	or other dioxin compounds Benzene :	<u></u>	X
Toluene Xylene PCBs Arsenic Cadmium Chromium (AS A HEXAVALENT Compound/sopium Bichromnit) Copper Lead	Polyaromatic Hydrocarbons (SEF ATTACHMENT)	区	
Arsenic Cadmium Chromium (AS A HEXAVALENT COMPOUND SOPIUM BICHEOMOTE) Copper Lead	Toluene	<u>×</u>	X
Cadmium Chromium (AS A HEXAVALENT COMPOUND SOPIUM BICHEOMATE) Copper Lead	PCBs		X
mercury	Cadmium Chromium (AS A HEXAVALENT COMPOUND/SOPIUM BICHEOMATE) Copper	<u>×</u>	**************************************

1

DDC000027

Nickel Silver Zinc (AS ZINC NITRATE & AS ZINC NITRITE)	Yes X	No.
Cyanide		X
Solvents (SEE ATTACHMENT)	X_	
If "yes", please list specific solvents. Chlorides (LITHIUM CHLORIDE) If "yes", please list specific compounds.	X	

- 4) a) Provide a description of the manufacturing processes for which all hazardous substances, including, but not limited to, the substances listed in response to item (3), were a product or by-product.
- b) During what parts of the manufacturing processes identified in the response to items (4)(a), above, were hazardous substances, including, but not limited to, the substances listed in response to item (3), generated?
 - \vec{i}) Describe the chemical composition of these hazardous substances.
 - ii) For each process, what amount of hazardous substances was generated per volume of finished product?
 - iii) Were these hazardous substances combined with wastes from other processes? If so, wastes from what processes?
- 5) Describe the methods of collection, storage, treatment, and disposal of all hazardous substances, including, but not limited to, the substances listed in response to item (3) and (4). Include information on the following:
- a) Identify all persons who arranged for and managed the processing, treatment, storage and disposal of hazardous substances.
- b) If hazardous substances were taken off-site by a hauler or transporter, provide the names and addresses of the waste haulers and the disposal site locations.
- . c) Describe <u>all</u> storage practices employed by your company with respect to all hazardous substances from the time operations commenced until the present. Include all on-site and off-site storage activities.

2

DDC000028

	OCARBONS		
AROMATIC PETROL	FOM HYDA	POCKBON_	
COMPONENTS!	1,2,4 TRIA	MATHYL BENZE	VE - 32 %
,	XYLENE	. ,	3%
•	CUMENE	Α.	1.5%
	ENTYLERNZ	EUE	.5%

SOLVENTS

LIGHT BLIPHATIC PEROLEUM NASTHA
METHYLENE CHLORIOL
TRICHLORO ETHYLENE
VM & P NAPTHA
MINERAL SPIRITS

DATE: 08/2	19196 ATTACHMENT OUTSTIM 3)			INDUSTRI STATUS R CODE		
ITEM			MAKE	LEAD		RE
CODE	DESCRIPTION	U/M	BUY W	CTIME E.	D. Q.	POII
PRODUCT CODE	: 999 BAW MATERIALS	7				
10100			B 00)1	0	
10101	ACETIC_ACID_QLACIAL, LB/DRUM		_M_0		. 0	
10102	ACETIC ACID 80%, LB/BULK	LB	M OC		0	
10103	ACETONE LB/DR	EACH		-	0	
10105	AEROSDL DS (CHEM 95), LB/DRUI		<u> </u>		<u>Q</u> _	
10106	AEROSOL OT-75 LB ALUMINUM SULFATE 36, LB/BULK	LB ·	M OC		0	
10110 10111	AMINDETHYLAMINDETHANOL_99%_LI			_	ŏ	
10112	AMM THIOCYANATE CRYST LB/BAG	LB	M OC		0	
10114	AMM THIOSULFATE 60%, LB/BULK	LB	M OC		ō	
10115	AGUA AMMONIA 26, LB/DRUM	LB	MOC	-	ō	
10116	ASCORBIC ACID USP, LB/DRUM	LB	M OC		0	··•
10160	ARCOSOLV PTB 360 LB/DR	LB	M OC	1	0	
10190	AVANEL-S-70 LB/PAIL	LB_	_MOC	1	o	
10191	ANTOFOAM 1925P	EACH	4 M OC		0	
10200			B 00	1	0	
10201	BORAX_5_MOL: TECH_GRAN, LB/BA		_MDC	1	0	
10203	BORIC ACID, TECH GRAN, LB/BAG	LB	M 00		0	
10204	BORIC ACID ANHY, LB/BAG	LB	M 00		0	
10205	BUYTYL_CELL.(GLYC.ETHER EB)DE		_M_00		o	
10206	BENZYL ALCOHOL, LBS/DRUM	LB	M OC		0	
10207	BHT LB/DR	EACH		_	0	
10208	BRIJ 30 40 LB PAIL	EACH			<u>Q</u>	
10280	BUYTL CARBITOL 440LB/DR	EACH			0	
10302	CARBOWAX 300 LB/DRUM	EACH			0	
10303	CARBOWAX_PEG_200,_LB/DRUM	<u>LB</u>	_ <u>M00</u>		<u>0</u>	
10304 10305	CARBOWAX PEG 400, LB/DRUM Carbowax PEG 8000, LB/BAG	LB LB	M 00		Ö	
10305	CARBOWAX PEG 3350/4000 LB	LB	M 00		Ö	
10305	CARBOWAX PEG 1450, LB/DRUM	LB	M 00		<u>~</u>	
10309	AMBER CUM 1221	LB	M 00		ŏ	
10310	CD-4 (PHENYL DIAMINE), LB/DRL		_M 00		o	
10314	CHEL 242 PN, LB/DRUM	LB	M 00	**	ō	-
10315	CHEELOX 120 (PERMAKLEEROLB/DR		M 00	-	ō	
10316	CH_112/BENZOTRIAZOLE,_LB/PAIL				ō	
10317	CH 125/PMT GMS/PAIL	EACH			ō	
10318	CH 250/M'CAPTO T'DIAZOLE, LB/P	L LB	M 00	1	0	
10320	CITRIC_ACID_USP_GRANLB/BAG_	LB	_MOO	1	Q	
10325	CD-3 COLOR DEVELOPER, LBS/DR	LB	M 00	1	0	
10327	CHROMIC ACID 100LB/DR	EACH	M 00	1	0	
10328	CHLOROFORM_675_LB/DR_(LAB)	LB	_MOD	1	Q	
10400			B 00		0	
10401	DBE ESTERS LB/DR	LB	M 00		0	
10402	DPM 435 LB DRUM	LB	_M00		o	
10403	DIETHYLETHANOLAMINE (DEEA)LB/D		M 00		0	
10404	DIETHANOLAMINE 85%, LB/DRUM	LB	M 00		0	
10405	DIETHYLENE_GLYCOL, LB/DRUM	<u>LB</u>	_M00		<u>ō</u>	
10406 10407	DOWANDL PM (GLY ETHER) LB/DR	LB	M 00		0	
10407	DIMAZONE S GMS	EACH			0	
10409	DITHIOGRAPHIC STACE OF COME	EACH			<u>°</u> _	
10410	DITHIODCTANEDIOL 25KG PL (GMS DI-ISOBUYTL DBE 485 LB/DRUM) EACH			0	
			M 00		0	
_ 10411	DODECYLBENZENESULFONICACID_LB	1 12	_MQO	1	0	

	DATE:	08/29/96					·	STO	CK	BTATUS	RIES, 1	r
1 -							PF	טפסא	CT	CODE	SEQUE	INCE
FL	ITEM							MAK	E	_LEAD		RE
	CODE	•	DESCRIPTI	אסו		•	U/M	BUY	W	CTIME	E. O. Q.	POI
-	10500								_00	1		
11	10501		ETHANDL F	6 642-	-200 GAL	/DR(LAB)	OAL	M	00	1	0	
- [1	10502		ETHANDL 2	200 PRC	OF, CAL	/DRUM	CAL	M ·	00	1	0	
11-	10503		ETHYLENE_				LB	_M_	_00			
- []	10504		E 1492 FL				LB	M	00		0	
`~ []	10506		EMCOPON T) /	LB	M	00	_	0	
· []—	10590		EXXATE 10				_LB	_M_	_00		<u>o</u> _	
, []	10571		EXXATE 13				LB	M	00	_	. 0	
	10592 10600		EXXATE 90	O LB/D	RUM		LB	M	00		0	
	10611		FRENCH CH	ALK. I	B / DRUM		LB	М	00	_	0	
14	10614		FERRIC AM			. A / DRUM	LB	M	00	-	ŏ	
	10700							R_	_00			
1.	10702		OLYDEXX L	B/DRUM	l		LB	M	00	_	0	•
[:1	10703		GLY. ETHER			L) 418#	LB	M	00	_	ŏ	
1.6	10705		CLUTARALD				LB_	_M_	_00:	_		
- - -	10706		GLYCERINE				LB	M	00:		0	
44	10707		CUM ARABI				LB	M	00	_	ō	
7-	10800							B	00	-		
	10803		HYDROXY E	THYL C	ELLULOS	E(LB/BG)	LB	M	00:	·	0	
‡ {	10804		HYDROGEN					M	001	ĺ	Ō	
L	10805		HYDROCHLO					_M_	_00		ō	
	10806	•	HYDROGUIN	ONE PH	DTDGRAD	E LB/BAQ	LB	M	001		0	
	10808		HYDROXYLA	MINE 5	ULFATE,	LB/BAG	LB	M	001	ļ	0	
	10809		HEXYLENE	CLYCOL	_500 LB	/DR	EACH	LM_	_001		0_	
<u> </u>	10850	-	HR1 (HEPTY	LMERCA	PTOOXAD:	IAZL)GM	EACH	M	001		0	
	10900						•	В	001		0	
	10901		ICEPAL. CD	710,L	B/DRUM_		LB	_M_	_001		0_	
	10702		ISOPROPAN	OL 99%	(LB)		EACH	M	001	<u>.</u>	0	
i i i	10903		ICEPON T-	33 C MS	•	·	EACH	M	001	•	0	
	10904		ISOPAR_E_	1360_L	B_DR/_5:	5_GAL)	LB	_M_			0_	
	11000							B	001		0	
	11100							B	001		0	
	11200		· · · · · · · · · · · · · · · · · · ·					_B	D 01		0_	
1.1	11201				LB/DRU	•	LB	M	001		0	
j.,	11202		LITHIUM C				LB	M	001		0	
,	11203		LF330.ANT			_CCMS)	EACH		-001		0_	
.	11204		LACTIC AC			4.0MO.	LB	M	001		0	
,	11205		LAROSTAT (EACH		001		0	
,	11206 11290		LITHIUM <u>H</u> LUDOX AM		DRUM)	DK	TB-	-M	001		0_	
12	11300		LODOX AM	(LB/	DROM		LB	M B	001		0	
-	11300 .		MAGNESIUM	CARMO	NATE. IS	Z/BAO	LB		001		O	
	11302		MAGNESIUM				EACH		001			
1.1	11302		METHANOL (DR	GAL		001		0	
	11304		METHYLAMI			/DDI IM	LB		-001		O	
-	11305		METHYL BEI				EACH		001		<u>0</u> _	
14	11306		METHYL CEI				LB		001		Ö	
]·L	11307		METHYL ES				EACH		.001		0	
	11308		METOL LB/				LB		001			
11	11309		METHYLDIE		AMINE C	LB.)	LB		001		ŏ	
11	11310		INERAL SI									
	11311		10ND AMMO						001		o	
11	11312		MONOMID 1				LB		001		ŏ	
<u> </u>	_11313		10NOSOD I UN					_M			Ö	
	11314		10NDCDR200				LB	M				

-			
DATE	OB.	100	104

HELION INDUSTRIES, INC. STOCK STATUS REPORT PRODUCT CODE SEGUENCE

77	•		Pi	יטעטי	CI	LUDE	BEGUE	NCE
(5)	ITEM		-	MAK	E	LEAD	•	REDR
1	CODE	DESCRIPTION	U/M	BUY	W/(CTIME	E. O. Q.	POINT
	44544	MONDCORZODO_HOSTACORZOGE	AOI B	1 10	_00		0	
	11314	MASIL EM350XC(SILICONE) 40LB	LB	В	00		0	
].]	11317		LB	M	00		ŏ	
	11318	METHYL ESTER C1270 400LB DR			00		õ	
11	11319	METHYL BOYATE MEI30 400 LB/DR		<u> </u>			0	
-1.1	11320	METHYLENE CHLORIDE 600LB DR	EACH	-	001			
11	11400			В	001		0	**
-11	11401	NITROBENZIMIDAZOLE_OMS	_ _LB	_M_	_001			
11	11402	NITROINDAZOLE, LB/BAG	LB	M	001		0	
1"	11403	NITRILOTRIACETIC ACID LB/BAG	LB	M	001		0	
('	11405	N-PROPANOL _LB/DRUM	_LB	M				
	11406	N-PYROL (100 LB. PAIL)	LB	M	001		0	
11	11500			B	001	_	0	
i L	11501	DXONE, LB/BAG	<u>lb</u>	<u>_H_</u>			0_	
11	11600			B	· 001		0	•
1:1	11601	PHENIDONE A (LB. /DR.)	LB	M	001	ļ	0	
14	11602	PLURONIC_31R1_LB/DR	LB_	_M_	_001		0_	
	11603	PHENIDONE B, LB/DRUM	LB	M	001	ļ	0	
14	11604	PHENOLPHTHALEIN, GRAMS	EACH	l M	001	ļ	O	
14	11605	PHOSPHORIC_ACID_85%, LB/DRUM	LB	M	001	,	O	
	11606	PHOSPHORIC ACID 75% 700LB/DR	LB	M	001		0	
	11607	- POTASSIUM ALUM, LB/BAC	LB	M	001		ō	
	11608	POTASSIUM BICHROMATE		_M_	001		ŏ	
	11609	POTASSIUM BROMIDE, LB/BAG	LB	/ <u>}</u> _	001	~	o	
T.		POTASSIUM CARBONATE, LB/BAG	LB	M	001		ŏ	
	11610			M	001		Ö	_
[-	11612	POTASSIUM FERRICYANIDE LB/DRUM			נטער			
	11613	POTASSIUM HYDROXIDE, LB/DRUM	LB	M			0	
	11614	POTASSIUM HYDROXIDE 45%, LB/DR		M.	001		0	
 ,	11615	PDTASSIUM_IDDIDEGMS	_EACH				<u>o</u> _	
1.1	11616	POTASSIUM METABISULFITE, LB/BC		M	001		0	
	11619	POTASSIUM SULFITE 45%, LB/BULK		M	001		0	•
1	11620	PUMICE POWDER FFF. LB/BAC		_M_	_001			
1.1	11621	PROPYLENE GLYCOL 4BOLB/DR	LB	M	001		0	•
11	11700	•		B	001		0	•
!'	11800			B	.001	·	<u> </u>	
	11900			B	001	,	0	•
	11901	SAG 30 DEFOAMER 45 LB. PAIL	EACH	M	001		0	
1"-	11902	SEQUEST_NA2 (NAZEDTA), LB/DRUM	_LB	_M_	_001		0_	
 *	11904	SEGNA4 (EDTANA4)	LB	M	001	ı	0	
14	11906	SODIUM ACETATE, LB/BAG	LB	M	001		O	
<u> </u>	11907	SODIUM_BENZOATE,_LB/BAG	_LB	_M_	_001		ō_	
- -	11909	SODIUM BICHROMATE, LB/BAG	LB	M	001		0	
ы	11910	SODIUM BISULFATE, LB/DRUM	LB	М	001		Ö	
1.	11911	SODIUM BROMIDE, LB/DRUM	LB		001		ŏ	
22.	11912	SODIUM CARBONATE MOND, LB/BAG	LB	M	001		o	
4		S. F. B. 40% 500 LB/DR.						
1,4	11713	SOD F'MALD BISULFITE PHT_LB/BG	LB	M	001		0	
	11914			_M	001		<u>o</u> _	
1.1	11715	SODIUM QLUCONATE, LB/BAQ	LB	M	001		0	
	11916	SOD HEXAMETA PHOSPHATE, LB/BAG			001		0	
-	11917	SOD HYDROXIDE FLAKES, LB/DRUM_		-M_	.001		o	
	11918	SODIUM HYDROXIDE 50%, LB/DRUM	LB		001		0	
	11919	SODIUM LAURYL SUFATE, LB/BAG			001		0	
-	11920	SOD METABISULFITE PHOTO_LB/BAQ			001		0_	
•	11721	SODIUM SULFATE, LB/DRUM	LB		001		0	
	11922	SODIUM SULFITE PHOTO, LB/BAG	LB		001		0	
<u> </u>	11923	SOD_THICCYANATE PHOTO, LB/BAG_	_LB	_M	2021	•	0	
	11924	SODIUM THIOSULFATE ANHY LB/BAG	LB	M				-
								_

DATE:	OB/29/96			STO	CK	ETATUS CODE	RIES, 1 REPORT SEQUE	T
ITEM	<u>:</u>	DESCRIPTION	11.754			LEAD		E
CODE		DESCRIPTION	U/n	5 01	m /	CITTE	E. O. U.	PC
11924		SODIUM THIOSULFATE ANHY L	B/BA	O_LB	_00	1	0	
11725		BOD THIOSULFATE RICED, LB/BAG		M	00	_	0	
11926		BOD TRIPOLYPHOSPHATE, L9/BAG	LB	M	00	-	0	
11927		BODIUM META BILICATE LB/BAG			_00		<u>o</u> _	
11928		BOY BEAN OIL 425 LB/DR	EAC		00	_	0	
11929		SULFAMIC ACID, LB/BAG SULFURIC ACID 66, LB/DRUM	LB LB	_ M	_00	-	0	
11930		ARDMATIC 100(HI FLASH)400LB/DR		M	00		0	
11931 11932		SURFYNOL 104E, LB/PAIL	LB	M	00	_	ŏ	
11732		SURFYNOL 465, LB/PAIL	LB	M_	_00	_	ŏ	
11934		SOD PERBORATE TETRAHYD, LB/BAG		M	00		0	
11935		SODIUM CITRATE, LB/BAG	LB	M	00	_	ŏ	
11938		BURFYNDL 104-PG50	LB	_M	_00		0	
11939		SPAN BO 450LB/DR	EAC	H M	00	1	0	•
11940		SURFONIC N60 LB/DR	LB	M	00	1	0	
11941	·	BURFONIC_N95_LB/DR	_LB_	M	_00	1		
11942		SURFONIC N 40 LB/DR	LB	M	00	1	0	
11943		SODIUM NITRATE LB/BAG	LB	M	00	1	0	
11944		SODIUM_NITRITE_LB/BAG	_LB_	M_	_ΩQ	1	0	
11945	;	SURFONIC N-150 LB/DR	EACH	H H	00	1	0	
12000	. •			B	00	1	-0	
12002		TETRAETHYL AMM_BROMIDE. LB/BAG			_00			
12003	•	TERPINEOL 101 LB/DRUM	LB	M	00		0	
12004	•	TEXANOL (LB)	LB	M	00	-	0	
12005		TRIETHANOLAMIINE,_LB/DRUM						
12006	•	TRIETHYLENEGLYCOL (TEG), LB/DR		M	00	_	0	
12007		TRISOD PHOSPHATE CRYST, LB/BAQ		M	00	-	0	
12008		TRITON X-100, LB/PAIL		<u>-H</u> -	_00		0	
12009		TRITON X-165, LB/PAIL TINOPAL SFP, LB/BAG	LB	M	00		0	
12010 12011			LB EACH	M	00	-	0	
12012		TOLU-SOL A 55 GAL DR	EACH		00			
12013		TPM 445LB/DR	EACH		00	_	. 0	
12014		TOLUENE 400 LB DRUM	LB_		00		ő	
12015		TRICHLORDETHYLENE 660 LB DR	LB		00:		o	
12017	-	TT 100 LB/DR	EACH				ŏ	
12100	·		_,,_,	B	001		ŏ	
12200				B	00		0	
12201	,	VERSENE ACID, LB/DRUM	LB	M	001		Ō	
12202		VERSENDL 120 (CHEL_DM41)_LB/DR_	LB_	_M	001	l	0	
12203		ALPINE VAN. FRAG 180-491 (QMS)	EACH	M	001]	0	
12204	•	VERSENEX 80 600 LB DR.	LB	M	001	<u> </u>	0	
12205		V. M. &P. NAPTHA_347LB/DB	LB	_M	.001		0	
12300					001		0	
12301	l	WITCONATE SK, LB/DRUM	LB		001		0	
_12400				_B	_			
12500		NO 500 1000 0000 0000			001		0	
12501	`	YP SODA/SOD FERROCYANIDE LB/BC	LB		001		0	
_12600		TIBOANTIM APPRADE A MANAGE			001		——ŏ—	<u> </u>
12601			LB	M	001		0	
12602	•	ZINC NITRATE, LB/BAG	LB	M	001	•	0	

ADDENDUM ATTACHMENT RESPONSE(11)

RIES, INC. Chemicals EET Nº 2032	DUPLICATE I HELION IN Migra of Qu 681 (BELLEVILLE	ne: 201-759-0200 : 201-759-1235	
TO FAKED 9/5-	Hemicul	PRIDE C	то ^Г
F.O.B. AEQUISITION NO.	TEAMS PAR S	5/9 PATE GEOUGHED	9/5/g
NUMBER PRICE AMOUNT	DESCRIPTI	QUANTITY MODERED RECEIVED	ORDERED
.37/10 1065.6	IPA 99%	DRS.	8 DRS
·72/4D 864.0	TRICHLOADEN		9×600
2.19/20 120.4	TOLUSOL A	9-2	1×55 gal
	ETHYLENE CL	0.32	Carried Carrie
2960.6.	D-1703 /3		OX. 7104
eoge 172/20 6	DEA8573		>X 4804

PRODUCT CODE:	RC		HELION INDUST			D	BATCH SIZ 2000	E: GALS.
BATCH NUMBER:		PRODUC		CH SHEET DEV. CON			DATE:	
Special Cautio ADDENDUM A RESPONS	TPACHMEN		WEAR RUBI	BER GLOV RESPIR	-	FACE SHIELD	· .	· · ·
Specifications	T r	H-25C(conc) 11.00±.05		Dil.pH	Dil. R	atio: 1+7	7
:	s	sp.Gr. 60°	F 1.250±.005	; .	10.30±.0	05 pH-250		
Step Materia	1/Mixing	Instructio	ns		Lot	Quantity	Units	Mix.
(a) DI. WA	TER					600	GALS.	
POTASS:	IUM SULFI	TE 45%	621	GALS.		7686.2	LBS.	
3 SODIUM	GLUCONAT	Έ				22.58	LBS.	
4 VERSEN	DL 120 (CHEL DM 41)			300	LBS.	
5 POTASSI	UM HYDRO	XIDE FLAKE				760	LBS.	
6 BORIC A	CID					376.6	LBS.	
7 POTASSI	UM BROMI	DE				120.4	LBS.	
8 CHECK T	EMP. LET	COOL TO 1	D5° TO CONTIN	UE				_
9 CHEM 11						547.24	GMS.	4
10 PHENIDO	NE B	SLURRY	IN WARM H20			45.1	LBS.	
	E GLYCOL		35_7GAL	<u>s. </u>		2389.45	LBS.	
12 HYDROQU						1130.4	LBS.	
13 DI. WAT	ER TO VOI	LUME						
						- 		
						<u> </u>		-
							_	1.
	<u>:</u>					 		
								
						 	-	
							- 	1
sality Control		Control	No.	Sp. G	(final)	<u> </u>		·
one pH-25H		D11.pH-2		Odor:		,	: · · · · · · · · · · · · · · · · · · ·	
nitial:		Initial:		4	itation:			
nal:		· Final:		Color		•		
tch Adjustment	Held Versus Por Hy	808 KOH F WOLLIZO 10 FLAK NE	loke for ph Queremed duce a furth	90499	0	į	84863	30016
en Tests	Pass	Fail	Reason:			;		
oto Tests	Pass	Fail	Reason:		•	•		
	25 84 2/2		Appro	vsl:		,	Date:	
3-0-0	44 42	Yer .	nr	0000	1035	,	1	••

•	DATE:	09/06/96	ATTYCHMENT RESPONSE(II)	•	370	ON INDUSTRIES, CK STATUB REPO CT CODE BEG					PAGE	: 1		
<u>+</u>	ETEM			-		LEAD	•••			OND-HRK-ON			- NET	
	CODE		DESCRIPTION	U/H	BUY	W/CTIME E. O. O	. POINT	STOCK	ROM "	T ROM'T	ORDER	HAND	AVAIL	
٠,	RODUCT C	10# -	99 RAH MATERIALS											
. • ") o month of the contract of t										•	
•	10100						0	0 0		0 0	0	0	0	
;-	10101		-ACETIC-ACID-OLACIAL,-LB/DRUH		-#-	-001	<u> </u>	<u> </u>		<u> </u>				
٠.	10105		ACETIC ACID BOX, LB/BULK	LB	H		0	0 0		0 0	0	17697	17497	
•	10103 		ACETONE LB/DR - AEROGOL OG (CHEM-98), LB/DRUM	EACH	.Ы	001	0	0 0		0 0		387	387	
•	10106		AEROSOL OT-75 LB	LD	М	•	0	0 0		0 0	0	4	4	
۰, ۳	10110		ALUMINUM BULFATE 36, LB/BULK	LD	H	001	Ö	õ d	,	o o	ŏ	24317	26317	
<u>"</u>	10111		-AMINDSTHYLAMINOSTHANOL 99% LI	EACH	-#-	-001	0	00	<u> </u>	00	0-	53.	53.	
٠	10112		APPR THIOCYANATE CRYST LB/8AG	LB	Ħ		0	0 9		0 0	. 0	350	350	
	10114		APH THIOSULFATE 60%, LB/BULK	, LB	H		0	0 . 0	1	0 0	0	14634	14634	
	10118		AGUA APPONTA 24. LB/DRUM		-M- M	001	0	0 0	 	0 0	0	518. 3	31 9	
	10116		ASCORBIC ACID USP, LB/DRUM ARCOSOLV FTB 340 LB/DR	LB	H		0	0 0		0 0	9	370	3 370	
•_	10100		AVANEL-S-70 LB/PAIL		_ii.	-001	.	<u> </u>		<u> </u>		40	40.	
•	10171		ANTOFOAH 1928P	EACH	H		ō.	0 0)	0 0	Q	0	0	
•	10200	ı					0	0 0		0 0	-	0	ò	
<u>-</u> -	10301		BORAN 3 MOL. TECH ORAM, LB/B/		_M.	-001	.0	0		-00	0	37b	776 _	
-	10203		BORIC ACID, TECH GRAN, LB/RAN		H	001	0	0 9		0 0	•	522	522	
-	10204		BORIC ACID ANNY, LB/SAG	, LB	M	001	0	0 0		0 0		· 150	150 301	
•	10204		BUYTYL CELL. 40LYC. ETHER EBIDI BENZYL ALCOHOL, LB8/DRUM	RLB LB	H	001	0	0 (0 0		0		
	10207		BHT LB/DA	EACH		001	Ğ	0 6		0 0		35	35	•
*_	10209		BRIJ 30 40 LB. PAIL	EACH			š	ō	i	-āā	ā	328	328	
•	10280		BUYTL CARBITOL 440LB/DR	EACH	H	001	0	0 ()	0 0	Ŏ	241	241	
-	10302		CARBOHAX 300 LB/DRUM	EACH		001	0	0 ()	0 0	0	183	183	
-	10303		CARBUNAX PEG 200- LB/DRUM-	<u> </u>	-M-	_001		•	}	_00		502	302	
	10304		CARBOHAX PED 400, LB/DRUM	L	H	001	ō	0	-	0 0		0	0	
*	10305	•	CARBOHAX PEG 8000, L8/8AQ 	L) 	M	001	0	0 (0 0	ŭ	.3	3 17_	
-	10307		CARBONAX PEO 1430, LS/DRUM	L	'n	001	0	0		0 0	0	191	191	
*	10306		AMBER OUN 1221	L	н	001	ō	ŏ . i	•	ŏŏ		29	29	
•	10310		- CD-4 (PHENYL DIAMINE) - LB/DR		_#.	_001	<u> </u>	<u> </u>	·	_ `	ō			
	10314		CHEL 242 PN, LB/DRUM	LB	H	001	0	0		0 0		100	100	
-	10315		CHEELOX 120 (PERHAKLEEROLB/D		Ħ	001	0	0	2	0 0	0	575	575	
-	1031	-	CH-112/BENZOTRIAZOLE,LB/FAI		-#	-001	· <u>o</u>		····	<u> </u>	<u>•</u>	12	12	
	10317		CH 123/PHT OMS/PAIL	EAC		001 001	0	-	0	0 0		1771 20	1771 20	
•	1031		CH 250/M'CAPTO T'DIAZOLE,LB/		M		Δ	_		_00	-	20 21 2	20 718	_
•	1032	_	CD-3 COLOR DEVELOPER, LBS/DR		H	001	ŏ)	0 0		36	34	
. •	1032		CHROMIC ACID 100LB/DR	EACI		001	ō	_	5	ŏ ŏ	_	100		
•	1032	8	CHLOROFORM 475 LB/DR (LAB)		-#	_001	0			_ōō		413	613	
•	1040				1	001	0		D	0 0		0		
	1040		DRE ESTERS LB/DR	LB	H		0	_	9	0 0	•	79		
			DPH-435 LB DRUM		# H	001	0		D	_00		772 85		
٠.	1040	_	DIETHYLETHANDLAMINE(DEEA)LB/ DIETHANDLAMINE 852, LB/DRUM	DR LB	n		0		D	0 0	_	445		
•	1040	•	DISTHYLENE OLYCOL, LB/DRUM		_ n		.ă	•	<u> </u>	0	_		62	
•	1040	-	DOHANGE PH (OLY ETHER) LE/DA		H		0	0	0	0 0		44		
٠.	1040		DIMAZONE 8 CHS	EAC			ŏ		Ď	ō ō	_	1689		
•	1040		D'LINONENE LB/DR	EAC			-0	_a	Ō		·ō	341	341	
	1040	-	DITHIODCTANEDIOL 25K9 PL (9)	18) EAC			0		0	0 0	_			
<u>-</u> ي	1041	-	DI-ISDBUYTL DBE 485 LB/DRUM	LD	H		0	-	0	0 0	_	113		
	1041 1050		DODECYLBENZENEBULFUNICACLD		H	_00T	0	0	0	0 0)	290	_ 290	

	•			•		ON INDUSTRIES,				,				
	DATE:	09/06/96				CK STATUS REPO					PAGE	: 2		
		•	•	PF	NGOS	CT CODE BEG	VENCE							
_	LTEM-		DCDA# (BT (O))			LEAD								
	CODE		DEBCRIPTION	U/H	BUY	W/CTIME E. O. O	. PUINI	BIUCK	RUM'I	MAN. I	DRDER	HAND	AVAIL	
	10200					001						_	_	
_	10501		ETHANOL PS 642-200 GAL/DR(LAS)			-001	0 0		·			0		
	10501		ETHANDL 200 PROOF, GAL/DRUM	OAL		001	0 0				•	50	50	
	10502		ETHYLENE OLYCOL LE/BULK	UAL	_H _H_	001			, ,			143	143	
	10504		E 1492 FUNDICIDE/BACTRICIDE	LI	 H		0 0	() 0			910	910	
	10504				-		0 0					.0	0	
	_10590		EMCOPON Y-77 (LB. /DRM.)	LD	_ H H	001	0 0	9		9		63	63	
_	10370		EXXATE 1000 LB/DRUM	LB	n		0 0		· · · · · · · · · · · · · · · · · · ·		·	147	147	
	10592		EXXATE 1300 LB/DRUM				0 0				: :	555	555	
	-10400.		EXXATE 900 LB/DRUM	L	H	_001	, ,				, ,	240	240	
	10611		PRENCH CHALK, LEZDRUM	LB	H		0 0				0	0	0	
					• •			•	-		, ,	972	972	
	10414 -10700		FERRIC AMMONIUM EDTA, LB/DRUM	LB	H	001	0 0	9		: :	, ,	1100		
	10702		DI VOCTY I BANGE				0 0			!!		0		
	10702		OLYDEXX LB/DRUM OLY, ETHER EP (PROPYCELL) 4180		M		0 0	,			9 0	0	0	
	-10703 10705					_001	•				, ,	1512	1215	
_	10706		OLYCERINE 79%, LB/DRUM	LD	<u>п.</u>	001	0 0		0 0		0	76 173	76 173	
	10705				- •	001	0 0						•	
	10900		OUM ARABIC 14 DE (LBE)	LB	H	-DD1				(1428	1428	
_	10803		HYDROXY ETHYL CELLULOBE (LB/80)		H		0 0		0 0			73	73	
	10804					001	0 0						57 9	
	10805		HYDROGEN PERDXIDE 35%, LB/DRUM HYDROCHLORIC ACID 20, LB/DRUM		H H_	001	•		,			579	•	
_	10804						0 0		0 (0	472	A72	
			HYDROGUINONE PHOTOGRADE LE/BAG		H	001	0 0		•	•	-	212		
	10808		HYDROXYLAHINE BULFATE, LB/BAQ		. Н И.М.	001	0 0				9	48	84	
	10850 10850		HEXYLINE GLYCOL SOO LEADR				0 0		0 (3	0 0	564	564	
			HR1(HEPTYLHERCAPTDOXADIAZL)9M	EAC	חה	001	-		•		T	3454	3454	
	10900		100011 00010 ID 100101			001	0 0		9		0	0	0	
	-10 701 - 10 7 02		IBOPROPANCE 99% (LB)		— ₩. H M	001	0 0		0		0 0	299 322	297 322	
			·				-			-	-			
	10903		TOEFON T-33 OHS.			001	0 0		0 (0 0	143	143	
			- 180PAR 5 (340 LB, DR. /33 OM)			001	0 0		0	0	0 0		y	
	11000						_		Ξ.	_	-	_	•	
	11100					-001	0 0		9	9	0 0	9	. 0	
_	11300		110170V/70 /0400 1 0 /00104			001	0 0		0	0	0 0			
	11201		LUVISKOL (PVP), LB/DRUM	LB	M		7 7		-	-	•	52		
	11202		LITHIUM CHLORIDE, LB/DRUM	L	. H	001	0 0		y !	9	0 0	102 2497		
_	-11203		-LF330 ANTAROX SURFACT, (OHS)		H-H		-V		<u> </u>	U				
	11204		LACTIC ACID LB/DR	LI			0 0		-	-	-	580		
	11205		LAROSTAT 264A ANHY PAIL (OMB)		HH	001	0 0	1	0 1	0	0 0	14483		
_	-11306		-LITHIUM HYDROXIDE SOLB/DR	-u-	— <u>K</u>	-001	- <u>v</u> 0			<u> </u>	0 0	45		
	11290		LUDOX AM (LE/DRUM)	LB	H	001	0 0		•	-		445		
	11300		MAGAMATIN SASSONANS 1			001	Ž 0	,	9	_	0 0	- 0	_	
-	11301		MACHESTUM CARBONATE. LE/BAG				. u	·	0			213		
	11302		MAGNESIUM NITRATE 2500/DR		HH		9		•	_		87	87	
	11303		METHANOL GAL/DR		. <u>H</u>	001	v 0		9	0	0 0	50		
_	11304		HETHYLANINDETHANOL, LB/DRUN		#		· v - · · · · · · · · · ·		U	<u> </u>	v	1		
	11303	•	METHYL BENZOTRIAZOLE ONB.		HH		v 9	!	-	•	0 0	7	•	
	11306		METHYL CELLOSOLVE, LB/DRUM	F8	М		ă ă	!	-	_	0 0	291		•
-	_11307		METHYL ESTER BLEND 420 LB/DR		H-H		·· 0	!			<u> </u>	100		
	11308		HETOL LB/DRUH	LU	H	001	n ö	!	_	-	0 0		_	
	11309		METHYLDIETHANOL AMINE (LB.)	L	M		9	,	0	0	0 0	34		
-	11310	<u> </u>	MINERAL SPIRITS 360 LB/DRUM	OAL		001			0	0	<u> </u>	1234		
	11311		HOND AMMONIUM PHOSPHATE LB/BA		H		0 0)	•		0 0	134	- · · ·	
٠	11312		MONOMID 190CH 40 LB PAIL	LE	H		0 0)	0	0	0 0	439		
	71313		MONOGOD JUNL PHOSPHATE LB/DRUM		M	_001	0		لم مصر سیسی 🗨	Q	00	523		

DAT	E: 09/06/96	•		STO	ON INDUST	REPORT					PAG	E: 3		
			P R	IODU	CT CODE	BEQUE	NÇE							·.
175				HAK	ELEAD						ORD. ON	ON	.NET	
COD	Æ .	DESCRIPTION	U/M	BUY	W/CTIME I	E. O. Q,	POINT	BTOCK	RGH 'T	RGH'T	ORDER	HAND	AVAIL	
1131	4	MONOCOR2000 HOSTACOR2098	-40LB.		_001	0	0	0)	o	50	50	
1131		MASIL EMBOOKE (SILICONE) 40LB	LB	•	100	0	0	0))		2	
1131		METHYL ESTER C1270 400LB DR	LB	H	001	0	0	0	Ò	•			370	
1131		METHYL BOYATE ME130 400 LB/DR.			-001		0	0)() ———0	491	491_	
1132		METHYLENE CHLORIDE 600LB DR	EAC		001	Õ	0				9 0		2 9 1	
1140		ALL THOUSENS THE PARTY OF THE		3	001	0	0	_	9)			0	
1140		NITROSENZIMIDAZOLE OMS		M_ M	001	0_	O				D 0		4222 7	
1140		NITRILOTRIACETIC ACID LB/BAG	LB	H	001	ă	ō	_				•	50	
1140		N-PROPANOL LB/DRUM	_ 11_	_H.	_001	ă.			·		D		252	
1140	06	N-PYROL (100 LB. PAIL)	LB	H	001	0	0	• •) () (0	80	90	
1150					001	0	0	9)	•	0 0	_	0	
1150		OXONE. LB/BAO	LB	—¥-	_001	—— ŏ	<u>.</u>	·			<u> </u>		330	
1160		PHENIDONE A (LB. /DR.)	LB	H	001 001	0	0) 0				_	0	
1160		PLUBONIC 31R1 LB/DR			_001	0		, ,				550	550	
116		PHENIDONE B, LB/DRUM	LB	H	001		ā	0		5	0 0		80	
114		PHENDLPHTHALEIN, GRAMB	EAC	HH	001	0	Q) () ()	0 (22	
116	05	PHOSPHORIC_ACID_85%_LB/DRUM.	LB_	M.	001	Q			1(0			
116	_	PHOSPHORIC ACID 75% 700LB/DR	LB	H	001	0	0		•	-	0 (_	0	
116		POTASSIUM ALUM, LB/BAG	LB	H	001	0	9			-	0 0		372	
116		POTASSIUM BROMIDE, LB/BAG	LU	P_ M	001	0) (· · · · · · · · · · · · · · · · · · ·		0) 34.	54 86	
116		POTASSIUM CARBONATE, LB/BAG	L	H	001	ŏ	č		•	_			881	
116		POTABBIUM FERRICYANIDE LB/DRU		M	001	0	Č			-	ŏ ?	330	330	
116		POTABBIUM HYDROXIDE, LB/DRUM	LD	М	001	0	0			0	0		455	
116		POTASSIUM HYDROXIDE 45%, LB/D	R LB	H	001	0) ()	9	0 (860	
116	15	POTABSIUM IODIDE OHS	EAC	H.H.	001	0.	0			<u> </u>	9	2045	2045_	
116		POTABBIUM METABIBULFITE, LB/B	_	H	001	0	•	-	_	_	0 (508	
116		POTABSIUM SULFITE 45%, LB/BUL	K LB	H	001	0	9		-	_	0 (
!!		PUNICE PONDER FFF. LR/8AO:		₩	001	0					0		230 219	
116 117		PROPYLENE GLYCOL 480LB/DR	LD	H	001 · 001	0	•		_	-	0 (214	
110					_001				-	_	ŏ ;	, ,		
. 119				•	001	0			D +	0	0	0	0	
119	01	BAO 30 DEFOAMER 45 LB. PAIL	EAC	H H	001	0	•) (•	D	0 (14	14	
119		- SEQUEST NA2 (NAZEDTA), LS/DRU		Н	001	0)(01	~	45	
119		BEGNA4 (EDTANA4)	L	H	001	0	9			_	-	0	0	
119		SODIUM ACETATE, LB/BAO		M	001	0	-	•	-	_	0 (72 253	
119		SODIUM BENZOATE, LB/8AG SODIUM BICHROMATE, LB/8AG		—.Л. Н						*	0 (300	
119	T .	SODIUM JISULFATE, LB/DRUM	L	H		ŏ		-	~		ŏ		8	
119		- SOUTH BROMIDE. LE/DRUM		_#	001	ō		-	-	_	٠	-	254	
119	12	BODIUM CARBONATE HONO, LB/BAG	L	H	001	0				_	-	7	7	
119		8. F. B. 40% 500 LB/DR.	LB	H		0	-		-	-	0 (0	
119		SOD F'HALD BISHLEITE PHT LB/8		<u></u> M	001	0					<u> </u>		135	
117		SODIUM GLUCONATE, LE/BAG	L	M		0		-	-	_		354	556	
119 119		900 HEXAMETA PHOSPHATE, LB/8/ 		H		0		- '	0 D	_) 214) 365	216	
119		BODIUM HYDROXIDE SOX, LB/DRUN	_	— М		0			0 139			2260	910	
119		SODIUM LAURYL SUFATE, LB/BAG	ĹØ	H		ŏ						101	101	
119		800 METABLEULFITE PHOTO LEVE		H		Õ		•	-	-		679	679.	
119		SODIUM SULFATE, LB/DRUM	LD	H	001	0	(_		-		1050	1050	
119		SODIUM SULFITE PHOTO, LB/BAG	LD	H		٥	(•	_	_		2739	2738	
119)23)24	800 THIOCYANATE PHOTO, LB/BAG BODIUM THIOBULFATE ANHY LB/B/		M M		0		D(0	Q	0 1	0149	149	

DATE: 0	9/06/96	81	TOC	N INDUSTRIES, 1 K STATUS REPORT T CODE SEGUE	r				PAGE	E: 4	
ITEM			ANE	LEAD	REOR	DER-REBER	VE-BLB-C	MD-HRK-	ORD: DN	ON	_NET
CODE	DESCRIPTION	U/H M	υy	W/CTIME E.O. Q.	POINT	STOCK	ROM'T	RQM'T	ORDER	HAND	AVAIL
11924	SODIUM THIOBULFATE ANN	Y-LB/BAG-I		0010		0 0)	QQ	330	230
11925	SOD THIOSULFATE RICED, LB/8	AG LU İ	H	001 0	1	D 0)	0 0	375	375
11926	SOD TRIPOLYPHOSPHATE, LB/BA			001 0		0 0	-	_	0 0	53	55
11927				001 0		9			<u> </u>	198_	198
11928	BOY BEAN OIL 425 LB/DR	EACH !	-	001 0		0 0		-	0 0	300	300
11929 11920	BULFAMIC ACID, LB/BAG BULFURIC ACID 44, LB/DRUM			001 0				•	0 0	513 783 .	515 783
11931	ARTHATIC 100(HI FLASH) 400LB			001 0		0 0		`	0 0	1304	1304
11932	SURFYNOL 104E, LB/PAIL			001 0				-	ŏŏ	24	24
11933	SURFYNOL 445. LB/PAIL			001		ō			ō	20	20
11934	BOD PERBORATE TETRAHYD. LB/	BAG LB I	M	001 0		o d	,	١,	0 0	1050	1050
11935	SODIUM CITRATE: LB/BAG	LB I	Ħ	001 0		0 0	. ()	0 0	424	424
11939	SURFYNOL 104-P050			001 0		0			00	47	47
11939	SPAN 80 450LB/DR	EACH I		001 0		0 0)	0 0	14	14
11940	BURFONIC NGO LB/DR			001 0		0 0			0 0	157	157
11941	SURFONIC HTS LB/DR			001 0		9			<u>•</u> • • • • • • • • • • • • • • • • • •	73 9 .	737
11742	SURFONIC N 40 LB/DR			001 0		0 ())	0 0	4	4
11943	BODIUM NITRATE LB/BAG	LD (Ħ	001 . 0		0	•	· 	<u> </u>	84 183	84 183
11944 11945	BURFONIC N-150 LB/DR	EACH	a	001 0		0 0)	0 0		0
12000	BOWLDMIC MAISO FRANK	Emin		001 0		ŏ	-	,)	ŏŏ	ŏ	ŏ
12003	TETRACTHYL AND BRONIDE, LB/	140 LD		001 0		ŏ	•		<u> </u>	10	19
12003	TERPINEOL 101 LB/DRUM			001 0		0		5	0 0	271	291
12004	TEXANOL (LB)			001 0		ō c			ö ö	4	4
12003	TRIETHANOLAMIINE. LB/DRUM	LD.		0010		0		Ď	00	565	565
12006	TRIETHYLENEGLYCOL (TEG), LB	/DR LB	M	001 0		0 () (D	0 0	117	117
12007	TRIBOD PHOSPHATE CRYST, LB/	BAO LB	M	001 0		0 (-	0	0 0	457	457
12008	TRITON X-100- LB/FAIL		H	-001		0		<u> </u>	00		
12009	TRITON X-145, LB/PAIL			001 0			_	D	0 0	37	37
12010	TINOPAL SEP, LB/BAO			001 0				D	0 0	50	50
12011	THEEK SO 490LB/DR	EACH	••	001 0		0 (-	D	0 0	25.	- 25
15013	TOLU-BOL A 33 GAL DR TPH 443LB/DR	EACH		001 0				D	0 0	250	250
12014	TOLUENE 400 LB DRUM		П М.,	001 0				· .	<u> </u>	30.	530
12015	TRICHLORGETHYLENE 440 LB DR			001 0		•		0	0 0		
12017	TT 100 LB/DR	EACH		001 0			-	D	ŏŏ	•	ŏ
-13100-			j	0010		-	=	ŏ	. ōō	-	ō
12200			3	001 0)	0 (D .	0	0 0	0	0
12201	VERSENE ACID, LB/DRUM	LB	H	001 0)	0	0	0	0 0	26	26
12202			Ħ.	001 0		•		Q	00	B14	B14
12203	ALPINE VAN. FRAG 180-471 (G			001 0		•		0	0 0		2988
12204	VERBENEX 80 600 LB DR.	LD .	H	001 0)	•	-	0	0 0		452
12203			<u>*</u> -)	—		<u> </u>	.00		307
12300			B	001 0		-		0	0 0	-	.0
12301	WITCONATE BK. LB/DRUM	LB	H	001 0	,		_	0	0 0		37
- 12400			-	001 0		-		0 0	0 0		
12500 12501	YP SODA/SOD FERROCYANIDE LE	/80 I B	Ħ	001 0				0 0.	0 0	-	-
12501 12400	TO BUDA DOU FERRULTARIUE LI	/ = V L.5		001				O. O	<u> </u>		0
12601	ZIRCONIUM ACETATE, LB/DRUM	LD	H	001 0				0	0 0		463
12602	ZINC NITRATE, LB/BAD		H	001			-	Ö	ō ō		371
				·-					_		

Accompanies to the same and the

****ATTACHMENT TO QUESTION 12a, "A" REDACTED****

848630022

B

RESPONSE TO 12a

TECHNION INC. 250 Delawanna Avenue Clifton, New Jersey 07014 201-773-5013 FAX 4: 201-773-4788

LAB DEP 4: 07190

CLIENT: Helion Inc.

DATE: 11-25-91

CLIENT REF: 11791

TECHNION REF: 15568

MATERIAL: One (1) charcoal sample

DATE RECEIVED: 11-7-91

LAB ID: T10817

ANALYSIS REQ: Acetic Acid and Hydroquinone in air analysis

The above samples were taken by Technion Personnel on 11-7-91 and analyzed as requested.

ANALYST: O. Tanrikulu

CERTIFICATE OF ANALYSIS

TEST RESULTS:

All test results are as attached.

Respectfully submitted,

Busan Baturay, D.Sc. Laboratory Director

SB/sn 15568

DDC000041

TECHNION INC. 250 Delawanna Avenue Clifton, New Jersey 07014

CLIENT: Helion Inc.

RUN DATE:: 11-15-91

MATERIAL: Air in charcoal

¿ DATE SAMPLED: 11-7-91

TEST RESULTS FOR ACETIC ACID

PARAMETERS RESULTS EXPOSURE LIMIT IDLH LEVE

Acetic Acid

N.D.

10.0

1000.0

Test results are in ppm (mg/m3) unless specified.

N.D.: Not Detected

IDLH: Immediately Dangerous to life or health concentration

848630024

TECHNION INC. 250 Delawanna Avenue Clifton, New Jersey 07014

CLIENT: Helion Inc.

RUN DATE:: 11-14-91

MATERIAL: Air in filter paper

, DATE SAMPLED: 11-7-91

TEST RESULTS FOR HYDROQUINONE

PARAMETERS RESULTS EXPOSURE LIMIT IDLH LEVEL

Hydroquinone N.D. 2.0 200.0

Test results are in ppm (mg/m3) unless specified.

N.D.: Not Detected

IDLH: Immediately Dangerous to life or health concentration

DDC000044

Testing and Flesearch Laboratory
250 Delawanna Avenue
Clitton, New Jersey 07014
201-773-5013
FAX #: 201-773-4700 ALTH: Project Description: TYPE REQUIRED HO. OF SAMPLE CONTAINERS EPA TIER I (CLP) HELION EPA TIER II (CLP) **RESULTS ONLY III** NJ ECRA II NJ TIER 16 NY DEC CLP REHTO DATE DUE Sampler (Signature REMARKS TIME SIXHOH DATE SAMPLE DESCRIPTION 848630026 Tione Time: Time **Dini** Rollquisned by (Signature): | Date (Military) | Neceived by (Signature) Dato (1.1iftary) Date [Mining] Received by (Signature): Daia (Millary) Floringished by (Signature): Thing REMARKS:

LECTION OF THE

1. Deporting ID: 214200 2. Inspecti	on No: 176564	15 3. \$	dan line Humb	er: 91						. (_
The Stablisheent Name: HELION INDUSTRIAL CEMB ID: 58011 6. Sampling Date: 9: Job Title: MIXER OPERATOR 11. 12. Frequency of Exposure: 4 form Exposure Summary	49 /49 /89 T PL	inning Bakat	A7/A7/05 (B. Date Z.	Result			•	•	92	
13. 14. 15. 16. 17. 18. Line Sub. Ree Serl Exp Expo	sure Units 1	PEL Adj	Severity	No.	, ,,,,	DVE:	D13 *				
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Agreement, T BETWEEN BELLEVILLE INDUSTRIAL CENTER, having offices at 681 Hain Street, Bellevill New Jersey 07109

as Landlord and HELION INDUSTRIES, INC., a New Jersey corporation, having offices at 681 Hain Street, Belleville, New Jersey 07109

WITNESSETH: That the said Landlord has let unto the said Tenant and the said Tenant has hired from the said Landlord, the following promises: Buildings 4A, 6B, 9, 10, 11, 12, 12A, 17 and 18 in the Belleville Industrial Center Complex, 681 Main Street Belleville, New Jersey (approx. 46,956 square feet) (Reference to square fest is not aprice factor, but merely to identify the property)

* And the 2nd floor office space in Buildings 22 & 23

for the term of THREE (3) YEARS

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19 85, and to end on the to commence from the lat day of December day of November 1688, to be used and eccupied only for preparation, storage and disciplination of chemicals used or useful in photography, graphic arts, photographic reproduction and for all related lawful purposes, upon the conditions and covenants following: November

noon the conditions and covenents following:

let: That the Tenant shall pay the samual rest of the HARDRED ELEVEN THOUSAND THREE HARDRED and 00/100 (\$111,300.00) DOLLARS for the first lease-year term; ONE HUNDRED NINETERN THURSAND FIVE HUNDRED SIXTY-FIVE and 00/100 (\$119,565.00) DOLLARS for the second lease-year term; and ONE HUNDRED THENTY-FIVE THURSAND FOUR HUNDRED NINE and 00/100 (\$125,409.00) DOLLARS for the third lesse-year term,

first anid cost to be poid in equal monthly payments in advance on the first day of each and every month during the term aforesaid, as follows: NINE THOUSAND TWO HUNDRED SEVENTY-FIVE and 00, 100 (\$9,275.00) DOLLARS for the first lease-year term; NINE THOUSAND NINE HUNDRED SIXTY-THREE and 75/100 (\$9,963.75) DOLLARS for the second lease-year term; and TEN THOUSAND FOUR FINDRED FIFTY and 75/100 (\$10,450.75) DOLLARS for the third lease-year term.

2nd. That the Tenant chall take good care of the promises and thell at the Tenant's own past and exposes make all except as therein set forth, in this Lease.

Mynd at the end or other expiration of the term, shall deliver up the demined premises in good order or randition, demagas by the elements excepted.

3rd: That the Tenant shall promptly account and comply with all statutes, ordinances, rules, orders, regulations and requirements of the Federal, State and City Government and of any and all their Departments and Russim applicable to said promises, (on the appropriate, pre-parties, and abstenuat of automore, violations or other grisvances, in, mans or connected withing is folkiles dising asid sterm; and shell also promptly with and execute all rules, orders, and regulations of the Baard of Fire Underwriters, or any other similar body, for the prevention of fires, at the Tenant's component and exposes.

**Applicable to Tenant's use.

4th; That is ease the Tonout shall fall or neglect to comply with the aforestid statutes, ardinances, rules, orders, regula-sions and requirements or any of them, or in case the Tonout shall fall or neglect to make any necessary repairs, then the Landford or the Landford's Agents may enter said premises and make said repairs and comply with app and all of the said statutes, ordinances, rules, orders, regulations or requirements, at the cont and expanse of the Tesant and is case of the Tesant's failure to pay therefor, the said cost and expanse shall be added to the next mouth's rest and be due and payable as such, or the Landford may deduct the same from the belance of any sum remaining in the Landford's hands. This provision is in addition to the right of the Landlord to terminate this leave by reason of any delault on the part of the Ten

Bih; That the Tenant shall not assign this agreement, or underlet or underleave the premises or any part thereof, or occupy, or permit or under the name to be occupied for any business as purpose deemed disreparance or universal account of fire, under penalty of dangages and forfelture.

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Other That no filterations, additions or improvements shall be made in or to the premites without the consent of the Chit.

Other That no filterations, additions or improvements shall be made in or to the premites without the consent of the

Landlord in writing, under penalty of damages and forfeiture, and all additions and improvements made by the Tonant shall

belong to the Londlord. Tenant may install sinks and general laboratory appurtenances with the reasonable approval of Landlordwithin live (3) days.

7th; In case of damage, by are or other cause, to the building in which the leased premises are located, without the fault of the Tenant or of Tenant's agent or employees. If the damage is so estebairs as to amount pretically to the total destruction of the leased premises or of the building, or if the Landlord shall within a reasonable time decide out to rebuild, this lease shall come and come to an end, and the reas shall be apportioned to the time of the damage. It all other cases whose the leased premises are damaged without the fault of the Tenant or of Tenant's agents or employees the Land lord thall topsir the damage with teatonoble disputch after notice of damage, and if the damage has rendered the premises untennulable, in whole or in part, there shall be an appartionment of the rant until the damage has been repaired. In dates mining what constitutes reasonable dispatch consideration shall be given to delays caused by atribes, adjustment of insural and other causes keyond the Landlord's coursel.

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9th: Thet said Tenent agrees that the said Landlard and Landlard's Agouts, and other representatives, shall have the right to outer into and upon said premises, or any part thereof, at all responsible boars for the purpose of enumining the same, or making such repairs or alterations therein on may be necessary for the safety and preservation thereof.

Whi The Tenant also agrees to permit the Landlord or Landlord's Agents to show the premises to persons wishing to hir or purchase the base; and the Tenant further agrees that during the six menths sent prior to the expiration of the term, the Landlord or Landlord's Agrees shall have the right to place notices on the front of said premises, or any part thereof, offering the premises "To Let" or "For Sale," and the Tenant hereby agrees to permit the name to remain thereon without hisdrance or melectries.

30th: That if the said promises, or any part thereof, shall become vyesset during the said term, or should the Tenant be orieted by summary proceedings or otherwise, the Londlord or Landlord's representatives may re-enter the same, althor by force or otherwise, without being liable to pronount on therefor; and re-let the said promises on the Africt of the said Tenant and receive the rest thereof; applying the same, first to the payment of such expenses on the Londlord may be put to in re-entering and then to the payment of the rest use by these presents; the balance (II any) to be paid over to the Tenant who shall remain liable for any deficiency.

If due to fault of Tanant

11th: Landford may replace, at the exposure of Tenant, by and off leaking gless in out about the dominal likewish. And the land of the control of the leaking of the land of t

13th; That the Typest shall neither occumber, nor obstruct the sidewalk in Front of, entrance to or halls and stairs of said building, nor allow the same to be obstructed or assumbered in any manner.

13th: The Traces that souther place, mer cause, wer allow to be placed, mer sign or signs of any bind whatsever at, in as about the extrance to said premises nor any other part of some except in or at such place or places as may be indicated by the mid Landlord and constanted to by Landlord is writing. And in case the Landlord or Landlord's representative chall doom it measures to remove any such sign or signs in order to paint or to make any other repairs, alterations or improvements in or upon said premises or the huilding wherein same it situated or any part thereof, the Landlord shall have to right to do so, providing the same be removed and replaced at the Landlord's expetus whenever the said repairs, alterations or improvements shall have been completed.

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18th; That if default be made in any of the novements berein contained, then it about he lawful for the said Landlord to re-outer the said premises, and the name to have again, re-possess and onjoy.

26th: Ther this lease shall not be a lies against said premises in respect to any mortgages that are now up or that becoming up to placed against said premises, and that the recording of such mortgage or mortgages shall beer preference and precedence and premiser and prior in lies of this lease irrespective of the date of recording and the Tenant agrees to execute any instrument without cost, which may be deemed necessary or desirable to further offect the subordination of this lease to any such mertgage or mertgages, and a refusal to execute such instruments shall outlide the Londlord, or the Landlord's assigns and legal representatives to the option of cancelling this lease without insurring any exposure we damage, and the term bareby granted is expressly limited accordingly.

17th: The Tenant has this day deposited with the Landlord the sum of \$4.637.50 as necessity for the full and faithful performance by the Tenant of oil of the terms and conditions upon the Tenant's part to be performed, which said must shall be returned to the Tenant after the time fixed as the expiration of the term bersin, provided the Tenant after the sime fixed as the expiration of the term herein, performed. In the overt of a boan did said, subject to this fease, the Landlord whill have the right to transfer the recurity to the vender for the byness of the Tenant and the Landlord shall be considered released by the Tenant from all liability for the return of such to the new Landlord colorly for the return of the said security, and it is agreed that this shall apply to every section of the said security and it is agreed that this shall apply to every section.

18th: That the occurity deposited under this deuse shall not be mortgaged, assigned or encumbered by the Trains without the written consent of the Londierd.

due to Tanant's use

19th: It is expressly understood and agreed that if for any reconf it abolt be impossible to obtain first incurance on the buildings and improvements on the demised premises in an amount, and in the form, and in fire insurence companies acceptable to the Landlord to be Landlord may, if the Landlord so elects, at any time therefore terminate this leave and the term thereof, on giving to the Tenant three days' notice in writing of Landlord's intention so to do and upon the giving of such unites, this leave and the term thereof shall terminate and come to an end.

20th: It is expressly understood and agreed that in ease the demised premises shall be deserted or vacated, as if default be made in the payment of the rest or ear part thereof as hereis specified, or it, without the neasons of the Landlord, the Tanant shall sail, assign, ar mortgage this leave or if default be made in the performance of any of the covenants and agreements in this leave contained on the part of the Tanant to be hopt and performed, or if the Tanant shall fall to comply with any of the electron, ordinances, rules, orders, regulations and tegularycoping of the Federal. State and City Government or of any and all this Toparaments and Bureous, applicable of hild primises, or if the Tanant shall file or there be filed against Tanant a petition in hankraptery or acrangement, or Tanant be adjudicated a backrapt, or make an assignment for the beacht of conditions or take devanings of any involvency net, the Landlord may, if the Landlord we obtet, at any time thereif or terminate this leave and the term hereof, on giving to the Tanant dee days' notice in writing of the Landlord's intention on to de, and this leave torm hereof shall expire and come to a end on the date fixed in the first hy mail to the Tanant addressed on demised premises, Racaipted hand-dalivary is also acceptable.

All notices required to be given to the Tonant may be given by mail addressed to the Tonant at the domised premises,

21st; The Penant shall pay to the Landierd the rent or charge, which may, during the demised term, he assessed or imposed for the water used or consumed in or on the said promises, whether determined by mater or otherwise, as even as and when the same may be assessed or imposed, and will also pay the expenses for the acting of a water meter in the said promises abould the latter be required. If such cont or charge or expenses are not ov paid the amount shall be added to the next month's remt thereafter to become due.

22nd: That the Tenant will not vor will the Tenant permit undertenants or other persons to do anything in anid premises or bring anything into sold premises, or permit anything to be brought into said premises or to be hopt therein, which will i any way increase the tote of fire featurence on said demised premises, nor use the demised premises or any part thereof, at under or permit their use for any business or purpose which would cause as instructed in the rate of fire insurance, on building, and the Tenant agrees to pay on demand any such increase.



23cd. If after default th payment of rent or violation of any other provision of this lease, or upon the empiration of this lease, the Tenant moves out or is disposanced and fails to remove any trade Artures or other property price to such asid default, removal, expiration of lease, or vessues the demised premises prior to the lausence of the final order or assecution of the warrant, then and in that event, the said disturce and property shall be deemed abandoned by the said Tenant and shall become the property of the Landlard.

Or Tonant

24th. The failure of the Landlord he finist upon strict performance of any of the sevenests or analyticas of this or to exercise any option hereis construed in any one or more instances, shall not be construed as a waiver or relinquish for the future of any such sevenants, conditions or options, but the same shall be and remain in full force and effect.

25th; In the event that the relation of the Landlard and Tonost may come or terminate by reason of the re-entry of the Landlard and or the terms and coverants contained in this lease or by the ejectment of the Tonost by summary proceedings or otherwise, or after the abandoment of the premines by the Tonost, it is bereby agreed that the Tonost shall remain shalls and shall say in mostly paymount the rost which correct subsequent to the re-entry by the Landlard, and the Tonost agreestly agreed to pay so demages for the breach of the overannts herein contained, the difference between the rest reserved and the rest collected and coorded, if any, by the Landlard, during the remainder of the unexpired term, such difference of deficiency between the rank branch successful payments during the remainder of the manufired term, as the assessment of such difference or deficiency shall from time to sime be assessment.

Billy: If the whole we say part of the demised premises shall be acquired or nondemed by Eminent Damain for any public or quasi public use or purpose, then and in that event, the term of this lease shall cease and terminate from the date of title vesting in such proceeding and Tenant shall have no alaim against Landlers for the value, of any aways shall belong to the tenant. Tanant may make its 60m Claim for its Crade satures and equipment, improvements and moving expenses.

27th: This leaks and the obligation of Tenant to pay runt hereuseles and perform all of the obligation of the standard agreements hereuseles on gentlements and agreements hereuseles on gentlements and agreements hereuseles are not a supplying any service expressly or implicitly to be supplied or is mable to make, or is delayed in supplying any service expressly or implicitly to be supplied or is mable to make, or is delayed in supplying any service of the supply or is delayed in supplying any equipment or fatures if Lordland is personated at delayed from no doing by remon of governmental preemption in connection with any rule, order or regulation of any department or subdivision thereof of any governmental agency or by reason of the conditions of supply and domand which have been or have affected by were or other amergency.

28th: Landland chill not be liable for delayed or other amergency.

28th: Candlord shall not be liable for failure to give passession of the premises upon commencement date by roase of the fact that promises are not ready for occupancy, or due to a prior Tenant wrongfully helding over or any other passes wrongfully in postession or for any other reason; in such event the rost shall not commence until postession is given or a

29th: This lease is subject and is hereby subordinated to all present and future mortgages, doeds of trust and other excumbrances of string the domined premises or the property of which said premises are a part. The Tenast agrees to execute, as no expense to the Landlard, any instrument which may be deemed necessary or desirable by the Landlard to further affect the subordination of this lease to any such mortgage, deed of trust or encumbrance.

-RIDER ATTACHED HERETO IS MADE A PART HEREOF-

If there is any inconsistency between the printed and Rider portions of this Agreement the Rider portions shall govern.

And the raid Landlord doth covenent that the said Tenest on paying the said yearly reat, and performing the covenents alcressed, shall and may perceivily and quietly have, hold and enjoy the said domined promises for the term alpereald, pro-vided however, that this covenent shall be conditioned upon the retention of title to the promises by the Landlord.

And it is Turther understood and agreed, that the covenants and agreements betein contained are binding on the parting to and upon their respective ancestars, baits, excenters, administrators and antigns.

It is further expressly agreed that the words used in the singular shall facilate words in the plansi where the test of

IN WITHERS WHEREOF, the parties have inter-changeably not their hands and sonic or extend these protests be nigned by their proper corporate afficient and country of their proper corporate and to be boreto affined, this day of October. 1985. day of October

is the presence of

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BELLEVILLE INDUSTRIAL CENTER, INC. Landlord

HELION INDUSTRIES

Tenant

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RIDER TO LEASE BETWEEN BELLEVILLE INDUSTRIAL CENTER, INC., AS LANDLORD and AS TENANT, HELION INDUSTRIES, INC.

31st. In the event that the fire insurance premiums for the demised premises, or for the buildings in which the demised premises are located, or the industrial complex in which the demised premises are located are increased, or cancelled by virtue of Tenant's use of the premises, then Landlord shall have the following options:

(a) In the event of any increase in insurance premiums chargeable to Landlord or to any other tenant in the industrial complex in which the demised premises are located, then Landlord may charge Tenant, as additional rent, for the amount of such increase, provided that if the same are paid by any other tenant in such industrial complex, Landlord shall remit to such other tenant the additional rent equal to the amount of such increased insurance premiums.

(b) In the event that Landlord's insurance, or the insurance of any other tenant in the industrial complex is cancelled as aforesaid, then Tenant shall have the option of obtaining like insurance coverage for Landlord or such other tenant within ten (10) days of Tenant's receiving notice thereof, and if Tenant fails to obtain such insurance, this Lease, at Landlord's sole election, may be terminated at the end of said ten-day period.**

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12nd / Should the

property be increased over what Landlord was required to pay fourthe tax base year of the amount of such increase increases, shall be determined by Landlord each month, or no often as Landlord may deem advisable, and Tenant shall be charged, and does hereby agres to pay to Landlord, such portion of said increase as the floor space hereby rented by said Tenant shall bear to the entire floor space in the industrial complex in which the demised premises are located, and such increases shall be paid by Tenant, as extra rent, on the first day of sech successive month following notice by Landlord, to Tenant, of the increases.

33rd. Landlord may provide ADT tie-in or similar service for the demises premises during the term of this Lease. If such services are provided, Tenant agrees to pay Landlord, as additional rent hereunder, the sum of \$78.20 per month. Should the cost of ADT or similar services be increased over the current costs, the amount of such increase or increases shall be determined by Landlord each month or as often as Landlord may deem advisable, and Tenant shall be charged, as additional rent, such portion of said increase as the floor space hereby rented by it shall bear to the entire floor space in said industrial complex.

Adlandiord states that this clause is in lesses with all other tenents. However, if any tenent is not bound, Lendlord is responsible for said obligation.

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RIDER TO LEASE BETWEEN BELLEVILLE INDUSTRIAL CENTER, INC. AND HELION INDUSTRIES, INC.

35th. Tenant represents to the Landlord that this Lesse was not brought about by any broker and indemnifies and agrees to hold Landlord harmless from claims made by any broker who acted on behalf of the tenant.

36th. Notwithstanding anything hersin to the contrary. Tenant shall have the right to sublet or assign the demised premises with Landlord's written consent, which consent shall not be unreasonably withheld, provided that in the case of an assignment, the assignee assumes the Tenant's obligations hereunder, pursuant to a written assignment agreement, and that a copy thereof is delivered to Landlord within ten (10) days after is execution.

37th. Tenant shall indemnify and save harmless Landlord against and from all liabilities, obligation, damages, penalties, claims, costs and expenses for which Landlord shall not be raimbursed by insurance, including reasonable attorneys fees, paid, suffered or incurred as a result of any breach by Tenant, Tenant's agents, contractors, employees, invitees or licensess, of any covenant or condition of this Lease, or the carelessness, negligence or improper conduct of the Tenant, Tenant's agents, contractors, employees, invitees or licensess. Tenant's liability under this clause extends to the acts and omissions of any sub-tenant, and any agent, contractor, employes, invitee or licenses of any sub-tenant. In case any action or proceeding is brought against Landlord, by reason of any such claim, Tenant, upon written notice from Landlord, will, at Tenant's expense, resist or defend such action or proceeding by counsel approved by Landlord, in writing, such approval not to be unreasonably withheld counsel of Insurance Compa of Tenant is approved.

38th. If the demised premises shall be partially damaged by fire or other cause, WINTERCURKENDMITERCHARMS CONTROL TOWNS OF THE CAUSE OF

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TO LEASE BETWEEN BELLEVILLE INDUSTRIAL CENTER, INC. and JON INDUSTRIES, INC.

shall expire as of the third day after such notice is given, and Tenant shall vacate the demised premises and surrender the same to Landlord. If Tenant shall not be in default under this Lease and if the premises were rendered untenable without the fault of Tenant, then upon the termination of this Lease, as above provided, Tenant's liability for rent shall cause as of the day following the casualty.

39th. Tenant expressly waives any and all rights of redemption granted by or under any present or future laws in the event of Tenant's being evicted or dispossessed for any cause, or in the event of Landlord's obtaining possession of demised premises, by reason of the violation by Tenant of any of the covenants and conditions of this Lease, or otherwise.

40th. If permission is given to Tenant to enter into the possession of the demised premises or to occupy premises other than the demised premises prior to the date specified as the commencement of the terms of this Lease, Tenant covenants and agrees that such occupancy shall be deemd to be under all the terms, covenants, conditions and provisions of this Lease, except as to the covenant to pay rent.

Alst. In the event that part of the demised premises shall be acquired or condemned by Eminent Domain for any public or quasi public use or purpose, Landlord shall have the option of terminating this Lease upon thirty (30) days' notice to Tenant. If Landlord does not elect to terminate this Lease, then Tenant shall be entitled to a reduction in its rest and other monetary obligations depending upon the reduction in the square footage of the premises due to such acquisition or condemnation by Eminent Domain.

take good care of the interior demised premises and the fixtures
therein and at its sole cost and expense, make all nonstructural repairs thereto as and when needed to preserve them in
good working order and condition, reasonable wear and test, obsolescence and damage from the elements, fire or other casualty, excepted.
Notwithstanding the foregoing, all damage or injury to the demised
premises or to any other part of the building, or to its fixtures,
equipment and appurtenances, whether requring structural or nonstructural repairs, caused by or resulting from carolessness, omisaion, neglact or improper conduct of Tenant, its servants, employees,
invitees or licensess, shall be repaired promptly by Tenant, at its
sole cost and expense, to the satisfaction of Landlord reasonably
exercised. Tenant shall also repair all damage to the building and
the demised premises caused by the moving of Tenant's fixtures,
furniture or equipment. All the aforesaid repairs shall be of quality
or class equal to the condition at the commencement of tera. If Tenant fails,
earlier ten (10) days's notice to process with due diligence to make,
the after ten (10) days's notice to process with due diligence to make,
curred by Lendlord shall be collectible as additional rentrafication
dition of a bill or statement therefor. Tenant, shall liveling the course of the Tenant of the appropriation of the structure of the demised premises and following such notice, Landlord's health
expenses are necessitated by damage or injury attributable to Tenant.
Tenant's servants, agents, employees, invitees or licenses as aforesaid. Except as specifically provided elsewhere in this Lease,
there shall be no allowance to the Tenant for a diminution of rental
value and no liability on the part of Landlord by reason of inconvenience, annoyance or injury to business arising from Landlord,
Tenant or othersmalking or failing to make any repairs, alterations,
additions or improvements in or to any portion of the building or
the demised premises or in

*Landlord shall be responsible for all repairs to the lessed premises, including, without limitation, roof, structural and exterior only to the extent of repairing asse within a reasonable time after notice in writing of required repair is given to Landlord; as to Roof repairs—I week is reasonable, subject to weather. Emergen repairs to be done forthwith.

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AIDER TO LEASE BETWEEN BELLEVILLE INDUSTRIAL CENTER, INC. and HELION INDUSTRIES, INC.

Aird. Anything elsewhere in this Lease to the contrary notwithstanding, if the New Jersey Board of Fire Underwriters or the New Jersey Insurance Exchange or any bureau, department or official of the federal, state or city government require or recommend the installation of a sprinkler system or that any changes, modifications, alterations or additional sprinkler heads or other equipment be made or supplied in an existing sprinkler system by reason of Tenant's business, or the location of partitions, trade fixtures or other contents of the demised premises, or for any other reasons to tenant, or if due to remant any such sprinkler system installations, change modifications, alterations, additional sprinkler heads or any other such equipment, become necessary to prevent the imposition of a penalty or charge against the full allowance for a sprinkler system in the fire insurance rate set by any said Exchange or by any fire insurance company. Tenant shall, at Tenant's expense, promptly make such sprinkler system installations, changes, modifications, alterations and supply additional sprinkler heads or other equipment as required whether the work involved shall be structural or non-structural in nature.

44th. Landlord reserves the right to stop service of the heating, elevator, plumbing, water and electric systems, when nece sary by reason of accident, or emergency, or for repairs, alteratic replacements or improvements, in the judgment of Landlord desirable or necessary to be made, until said repairs, alterations, replacements or improvements shall have been completed. And Landlord shall have no responsibility or liability for failure to supply heat, elevator, plumbing, water and electric service, during said pariod or when prevented from so doing by strikes, accidents or by any cau beyond Landlord's control, or by laws, orders or regulations of any Federal State or Nunicipal Authority, or failure of coal, oil or other suitable fuel supply, or inability by exercise of reasonable diligence to obtain coal, oil or other suitable fuel.

A5th. Neither Landlord nor Landlord's agents have made ar representations or promises with respect to the physical condition of the building, the land upon which it is erected or the demised premises, the rents, leases, expenses of operation or any other man ter or thing affecting or related to the premises, except as herein expressly set forth and no rights, easements or licenaes are acquired by Tenant by implication or otherwise, except as expressly set forting the provisions of this Lease. Tenant has inspected the building and the demised premises and is thoroughly acquainted with their condition, and agrees to take the same "as is" (except for the representation, and agrees to take the same "as is" (except for the representation of the demised premises by Tenant shall be conclusive evidence that the said premises by Tenant shall be conclusive evidence that the said premises by Landlord set forms a part were in good and satisfact condition at the time such possession was so taken have except the latent defect. All the understandings and agreements have except all alone fully and completely expresses the agreement have except and or effective to change, modify, discharge or effect an abandon and reference to change, modify, discharge or effect an abandon province it in whole or in part, unless such executory agreement is in writing and signed by the party against whom enforcement of the change, modification, discharge or abandonment is sought.

A6th. Upon the expiration sounded second accompanisher possession of the term

A6th. Upon the expiration memobaclescence. Mississipposed that the communication of the term of this Lease, Tenant shall quit and surrender to Landlord the demised premises, broom clean, and in substantially the same conditions of the commencement of the term hereof, ordinary wear and damage by the elements excepted; and Tenant shall remove all its property. Tenant's obligation to observe or perform this covenant shall sur the expiration or other termination of this Lease. If the last dof the term of this Lease or any reneval thereof falls on Sunday, this Lease shall expire at noon on the preceding Saturday, unless

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or obsolescence, fire, or other casualty

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RIDER TO LEASE BETWEEN BELLEVILLE INDUSTRIAL CENTER, INC. and HELION INDUSTRIES, INC.

be a legal holiday in which case it shall expire at noon on the preceding business day.

A7th. It is mutually agreed by and between Landlord and Tenant that the respective parties hereto shall and they hereby do waive trial by jury in any action, proceeding or counterclaim brought by either of the parties hereto against the other (except for personal injury or property damage) on any matters whatsoever arising out of or in any way connected with this Lease, the relationship of Landlord and Tenant, Tenant's use or occupancy of said premises, and any emergency statutory or any other statutory remedy. It is further mutually agreed that in the event Landlord commences any summary proceeding for non-payment of rent, Tenant will not interpose any counterclaim or whatever nature or description in any such proceeding.

Asth. Except as otherwise in this lesse provided, a bill, statement, notice or communication which Landlord may desire or be required to give to Tenant, shall be deemed sufficiently given or rendered if, in writing, delimentative and experimental and sufficiently given or registered or certified mail addressed to reant at the building of which the demised premises form a part or at the last known residence address or business address of Tenant or left at any of the aforessid premises addressed to Tenant, and the time of the rendition of such bill or statement and of the giving of such notice or communication shall be deemed to be the time when the same is delivered to Tenant, mailed, or left at the premises as herein provided. Any notice by Tenant to Landlord must be served by registered or certified mail, addressed to Landlord at the address first hereinabove given, or at such other address as Landlord shall designate by written notice.

49th. Tenant shall:

(a) At its own cost and expense, keep the demised premises free and clear of all cuttings, rubbish, waste paper and other waste material in conformity with the requirements of any insurance carrier of the Landlord;

(b) Replace , at its own cost and expense, any window or place glass which shall be damaged or broken in the demised premises:

(c) In the event that Tenant requires electric power or service beyond that presently existing in the denised premises, it shall install such power or service and metering for the same, at its own cost and expense, and promptly pay all charges for the installation and usage thereof.

50th. Landlord represents and warrants that, as of the commences of term hereof, the heating system/installed in the demised premises is in working order.

and all other facilities

Sist. The Tenant shall, at its own cost and expense, maintain and make all repairs to the unit heaters (if any) on the premises herein demised, and at the end or other expiration of the term, shall deliver up said unit heaters in goodorder and condition. Tenant shall, at its own cost and expense, furnish gas and electricity to operate the unit heaters (if any) on the demised premises.

52nd. landlard shall have the sole privilege, to place any vending machines in the demised premises; and no other person or company shall have such privilege; without the express written consent of the Landlard. Landlard shall not; however; place any Vandlag machines on the demised prepises which will directly interfere.

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. TO LEASE BETWEEN BELLEVILLE INDUSTRIAL CENTER, INC. and ON INDUSTRIES, INC.

sich the conduct of Tenent's husiness

te prohibited on the phonises and that Belleville Industrial Center is under no obligation to Commo's Coffee Shop to remove any vialators of

33rd. Tenant shall, at Tenant's cost and expense, remove sll gerbage, debris and waste generated by the Teannt from the previses immediately upon the collection thereof. In the event Tenant delays the removal of said items, the Landlord may, after a 48-hour notice in writing served upon the Tenant to remove same, cause the removal thereof at the cost and expense of Tenant, which cost and expense shall be paid on the first wonth after the removal takes place;

54th. Should any rental installment not be paid within ten (10)days of the date that same is due, there shall be a 5% increase in rent for that month as a late charge.

56th. Roldover Tenancy. If Tenant holds possession of the premises after the term of this Lease, Tenant shall become a tenant from month-to-month under the provisions herein provided, but at a monthly basic rental of two hundred (200%) percent of the basic rent for the last month of the term or any renewal term, payable in advance on the first day of each month and such tenancy shall continue until terminated by Landiord, or until Tenant shall have given to Landlord a written notice, at least sixty (60) days prior to the intended date of termination, of intent to terminate such tenancy.

any permits, certificates or other writings.

57-b. Xing Xingger Regenses Not Notherly Article and productioned NEXI.

Size Xing Xingger Regenses Not Notherly Article and Xingger Regenses Article and Article and Xingger Regenses Article and Article Arti

Sech. The communication of the property of the control of the cont

**Oth . The 2,700 square feet of second floor office space, -which is added to the old premises leased, is leased to the Tenant in its "as is" condition, with the exception that the Landlerd provide all plumbing and sanitary facilities are in working condition and the sprinkler system is operational and that the roof is in good repair and not leaking %.

and/or clean-up of premises at the time of finel termination of this lease, both leaders and mant shall share equally the cost of such inspection. In the event an Environmental eleanist required, the cost of same shall be allocated to the Tenant solely on the basis of the editions having resulted from the acts and conduct of the Tenant from the time of original aging of the presides.

-6-1268lord-will be respondible for clean-up cont not no caused by the main of Tenant.

NO.

RIDER TO LEASE BETWEEN BELLEVILLE INDUSTRIAL CENTER, INC., AS LANDORD and AS TEMANT, HELION INDUSTRIES, INC.

(55th.) Tenant should not be placed under an obligation of additional increased ... reat so long as it was complying with the ECRA obligation or while weiting for such clearances.

62nd. The Landlerd shall have the power and right to sancel this Lesse in the event it converts the demised premises to residential use. Landlord shall give Tenent six (6) months' motice of unneellation and will ply Tenent for its moving supenses to a lesstion in New Jersey.

63rd. The Tenent shell have the privilege to cancel this lease in the 2nd year of the term upon giving the Lendlord six (6), months' mptice of cancellation.

IN WITHERS WHEREOF, the parties have because caused these proved to be duly executed the day and year first above written.

BELLEVILLE INDUSTRIAL CROTER, INC.

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ION INDUSTRIES, INC.

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Response to 126

EXTENSION AND MODIFICATION OF LEASE

AGREEMENT made this first day of December 1981 between BELLEVILLE INDUSTRIAL CENTER, INC., a New Jersey corporation, having its principal office at 681 Main Street, Belleville, New Jersey (hereinafter called "landlord") and HELLION INDUSTRIES, INC., a New Jersey corporation, having its principal office at 681 Main Street, Belleville, New Jersey (hereinafter calles "Tenant"),

WITNESSETH:

MHTREAS, there is presently existing a Lease Agreement (Hereinafter called "Lease") between the Landford and Tenant dated December, 1985 for premises known as Buildings 12 and 18A in the Industrial Complex known as Belleville Industrial center, 681 Main Street, Belleville New Jersey; and

WHEREAS, the parties are destrous of extending and modifying the aforesaid lease.

NOW THEREFORE, in consideration of the aforesaid and the mutual covenants and conditions herein, the parties agree as follows:

- 1. The parties incorporate and make a part hereof all of the term and conditions of the existing lease dated December, 1985 except as amended herein.
- 2. The Lease is hereby extended for a three (3) Year period from Pecember 1, 1988 to Movember 30, 1991 as follows:
- (a) The rental for the period December 1, 1988 to November 30, 1989 will be ELEVEN THOUSAND TWO MUNDRED FIFTY AND 75/100 (\$11,250.75) DG:LARS;
- (b) The sental for the period Pecember 1, 1989 to November 30, 1990 will be TWELVE THOUSAND TWO HUNDRED FIFTY AND 78/180 (\$12.230.75) DOLLARS;
- ic) The mental for the period of Pecember 1, 1998 to Movember 38, 1991 will be THIRTEEN THOUSAND FOUR MUNDRED FYFTY AND 75/180 (\$13,458.75) DOLLARS;

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3. LANDLORD AND Tenant agrees to following:

(a) Landlord will repair roofs when necessary - no replacement, it is understood that patching will reduce leaks by about 80% not 100%.

(b) Landlord will replace left hand door and repair the

(c) Tenant will cement and potch floor.

(d) Landlord will agree to pay for any guttering work that needs to be done.

IN WITHESS WHEREOF, the parties hereto have caused these present to be duly executed the day and year first above written.

BELLEVILLE INDUSTRIAL CENTER, INC

liendlord

BY: White State St

President

HELTON INDUSTRIES. INC

(Tenent)

BY: Starland

KECHUNGA- 70 136 EXTENSION AND MODIFICATION OF LEASE

AGREPHENT made this day of SaPlamear, 1982, and between BELLEVILLE INDUSTRIAL CENTER, INC., a New Jersey corporation, having its principal office at 681 Hain Street, Belloville, New Jersey (hereinafter called "Landlord") and EMLION INDUSTRIES, INC., a New Jersey corporation, bavings its principal office at 601 Main Street, Bolloville, New Jersey (bereinafter called "Tenant").

HITHRABETH.

MHRMAS, there is presently existing a Lease Agreement between the Landlord and the Tenant, dated Documber 10, 1979, for premises known as Buildings 10, 11 and 14 in the Industrial Complex known as Belleville Industrial Canter, 581 Main Street, Belleville, New Jersey.

WHITEAS, the parties are desirous of extending and modifying the aforesaid Lease.

HOW THEMPORE, in consideration of the aforesaid and the mutual covenants and conditions herein, the parties agree .

- 1. The parties incorporate and make a part herof all of the terms and conditions of the existing Lease, dated

 December 10, 1979, except as amended herein.
- 2. The Lease is hereby extended for an additional two
 (2) years from December 1, 1982 to November 30, 1984 at yearly
 rentals as follows:

let year: THIRTY-FIVE THOUSAND ONE THIRTHDITCH HIM and GO/100 (#35,139.00) DOLLARS: 2nd year: THIRTY-SEVEN THOUSAND TWO EDUDIED FORESEVEN and 34/100 (#37,247.34 DOLLARS)

3. Said rent to be paid in equal monthly installs in advance on the 10th day of each and every month during the terms aforesaid as follows:

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let year: TMO THOUSAND NINE BUNDRED TWERTY-EIGHT and 25/100 (\$2,928.25) DOLLARS: 2nd year: THREE THOUSAND ONE HUNDRED TEREE and 95/100 (\$3,103.95) DOLLARS.

- 4. Paragraph 32nd (tax base year) remains unchanged.
- 5. Paragraph 33rd is amended so that the sprinkler service charge is \$35.75 per month.
- 6. In the event their is a subletting of the premises by the Tenant in accordance with provisions of Lease permitting the same, the Tenant shall be obligated to pay to the Landlord any rent received by Tenant in excess of the amount owed by the Tenant as rent becauser.
- 7. Landlord shall have the power and right to cancel this Lease in the event it converts the demised premises to residential use. Landlord shall give Tenant six (6) months notice of cancellation and will pay Tenant for its moving exto a location in New Jersey.
- 8. The Tenant shall have the privelege to cancel this Lease in the 2nd year of the term upon giving the Landlord Six (6) Months notice of cancellation.
- 9. The Tenant assumes all obligations the Landlord may have under the main Lease, with respect to maintaining and repairing the roof, floor, doors, and loading doors, the heating system, walls, ceilings, glass and sprinklar system in the demised premises, in a condition equal to that of the compennement of this Lease extension, (12/1/82).

IN WITHESS MEDICOF, the parties have herounto caused these presents to be duly executed the day and year first above

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BELLEVILLE INDUSTRIAL CEPTER, 18V.

RELION INDUSTRIES. INC.

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RESPONSE TO 1136)

EXTENSION AND MODIFICATION OF LEASE

AGREEMENT, made this day of December, 1983, by and between BELLEVILLE INDUSTRIAL CENTER, INC., a New Jersey corporation, having its principal office at 681 Hain Street, Belleville, New Jersey (hereinofter called "Landlord") and HELION INDUSTRIES, INC., a New Jersey corporation, having its principal office at 681 Hain Street, Belleville, New Jersey (horeinofter called "Tenant"),

WIIHESSETH:

MHEREAS, there is presently existing a Lease Agreement (hereinafter called "Lease") between the Landlord and Tenant, dated November, 1982, for promises known as Buildings 17 and 18 in the Industrial Complex known as Belleville Industrial Center, 681 Main Street, Belleville, New Jersey; and

WHEREAS, the parties are desirous of extending and modifying the aforesaid Lease,

NOW THEREFORE, in consideration of the aforesaid and the mutual covenants and conditions herein, the parties agree as follows:

- 1. The parties incorporate and make a part hereof all of the terms and conditions of the existing Lease, dated Hovember, 1982, except as smended herein.
- 2. The Lease is hereby extended for an additional one (1) year period from December 1, 1984 to November 30, 1985 as follows:
- (a) The rental for the period December 1, 1983 to November 30, 1984 will be EIGHT THOUSAND and 00/100 (\$8,000.00)
- (b) The rental for the period Documber 1, 1984 to November 30, 1985 will be EIGHT THOUSAND and 00/100 (\$8,000.00) DOLLARS;
 - (c) The Tenant agrees that additional rent for taxes

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is to be paid as set forth in the Extension and Modification of Lesse between the parties this date made for Buildings 10, 11 and 14.

- 3. Landlord and Tenant agree to the following:
- (a) Landlord will maintain the roof, floors, windows and structural weakness, at Landlord's cost and expense. Said work shall be done in a reasonable time after notice of defect has been given to the Landlord, in writing, by Certified Mail.
- (b) Landlord will install ceiling fans as required in the entire premises in order to make a proper distribution of heat, the cost of such installation shall be borne equally between Landlord and Tenant.

IN WITHESS WHEREOF, the parties hereto have caused these presents to be duly executed the day and year first above written.

BELLEVILLE INDUSTRIAL CENTER INC. (Landlord)
By:
Abraham Ellis President

HELION INDUSTRIES, INC. (Tenant

President

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RESPONSE TO (136)

1. 1. . . .

ADDENDUN TO LEASE
BETWEEN
BELLEVILLE INDUSTRIAL CENTER, INC.
and
HELION INDUSTRIES, INC.

THIS ADDREDUM TO LEASE made on this 26 day of Movember, 1991 by and between BELLEVILLE INDUSTRIAL CENTER, INC. ("Landlord") and MELION INDUSTRIES, INC. ("Tenant").

WITHESETH;

MHEREAS, in October 1985 Landlord and Tenant executed a Lease and on December 1, 1988 executed an Extension and Modification of Lease pertaining to premises located in the Belleville Industrial Center Complex located at 481 Main Street, Belleville, New Jersey as described in said Lease (hereinafter referred to as the "Leased Premises"); and

WHEREAS, the parties are desirous of extending the term of said Lease and making other modifications thereto as hereinafter set forth

MOM, THEREFORE, for and in consideration of the terms, covenants, conditions and provisions as hereinafter set forth, the barties agree as follows:

- The Lease between Landlord and Tenant shall be extended to December 31, 1991 under its present terms.
- 2. Commencing January 1, 1992 the Lease shall be extended for a period of ten (10) years to December 31, 2001 with all of the terms, covenants, conditions and provisions of the Lease remaining in full force and effect, except as hereinafter set

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- (a) Each lease year shall commence on January first:
- b) The current rent shall continue until December 31, 1992, after which it shall increase cumulatively at the rate of six (6t) percent annually, payable on the first day of each wonth in advance, during each lesse year.
- (d) Tenant will pay the increase in taxes over the base year of 1991. The first payment will be on December 31, 1992 representing the differential between 1992 and 1991. Thereafter, on December 31 of each year during the term of the Lease, Tenant will pay to Landlord the differential between that year's taxes and the taxes for the base year of 1991.
- (e) Landlord shall have the right to make inspections of Tenant's Leased Premises on reasonable notice and at reasonable times.
- (f) Tenant shall provide such additional funds as are necessary to increase the amount of the security deposit in the hands of Landlord to equal one (1) month. On the first day of the first month in year five (5) (January 1, 1996), Tenant shall provide Landlord with one (1) additional month's security deposit.
- (g) Repairs as required to the interior of the Lessed Presises will be

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In the event and only in the event of early termination, a payment of (460,000.00) Dollars by good check will be paid to Landlord, upon

vacating of premises by tenant.

assumed by Tenant at the Tenant's cost. Tenant shall be responsible for repairing and patching the roof to the extent necessary to prevent or cure lesks which leaks are interfering with the Tenant's business operations. However, it shall be Landlord's responsibility to repair or replace structural members, including beams, stringers and columns if required.

- (h) Tenant shall have no responsibility for common area items beyond those for which it is presently paying.
- (i) The ECRA clause as it is presently found in the Lease shall remain unchanged except that the following shall be added thereto:
 - (1) There shall be no engagement of any inspection company, team or individual with regard to the Leased Premises without the mutual approval of the Landlord and Tenant of the terms and conditions of any such angagement.
 - (2) Tenant represents that it has not made any hazardous or toxic waste discharge during the term of the existing Lease and Tenant covenants and agrees not to discharge any hazardous or toxic waste during the term of the renewal period.
 - (3) In the event of a change of majority ownership or control of the Tenant by way of sale or stock transfer, then in such event the provisions in the Lease pertaining to ECRA, other than (i)(1) and (i)(2) above, shall be null and void and the parties shall be governed by the laws of the State of New

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Jersey and the United States as they pertain to the situation.

IN WITHESS WHEREOF, the parties have set their hands and

seals the day and year first above written

Landlord:

BELLEVILLE IMPOSTRIAL CENTER, INC.

By: Lynn Clurman, President

Tenant:

HELION INDUSTRIES, INC.

By: Strong Venthy President

F: WIDATA49 WELFOR VAPOR HOUR. LSE

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ACREEMENT

THIS AGREEMENT, made this / day of Detract 19.79 between BELLEVILLE INDUSTRIAL CENTER, INC., of 681 Main Street, as Landlord, and HELION INDUSTRIES, INC., of 681 Main Street, Belleville, N.J., as Tonant, for and in consideration of the sum of One (\$1.00) Dollar, and other good and valuable consideration, the parties hereto agree as follows:

YIINESSETH

- (1) The parties have this day exacuted four Leases for space in the Belleville Industrial Center.
- Each Lease has a requirement for the completion by the Landlord of certain repairs and improvements. Said repairs and improvements. Said repairs and improvements are warked "priority" and hon-priority. The parties agree that the "priority" items shall be completed by December 15, 1979 and that the "non-priority" items shall be completed by December 15, 1979, weather permitting.
- (3) Rent shall become due and payable on each of the aforesaid leases as therein set forth except rent with respect to suyone of the said Leases shall not become due and payable for the premises covered in said Leases until the following items are complated.

 - (a) broken windows fixed;
 (b) split doors repaired or replaced;
 (c) repair concrete floor directly under unit heaters in Ruilding No. 9 frontmost section.
- (4) Anything to the contrary notwithstending in the afore-said Leases and in this Agreement, Landlord's obligation to complete the items mentioned in the said Leases as obligations of the Landlord shall continue in full force and effect until the same are completed.
- (5) In regard to the agreements relating to the premises situate in Buildings 10, II and 14 and in Buildings 4A, 6B and 9. Tenant shall have the right to install a ventilating system and duct work related thereto from the interior to the exterior of the Buildings and shall have the further right to install pipes through walls of the respective premises described under each of such agreements without cost to the Landlord and upon termination of the Lease, the Tenant shall reave these items and constructions at Tenant's cost and expense and reasonably restore the pressures to the condition in which they are at the pressure reasonable wear and tear excepted. present time, ressonable wear and tear excepted.
- (6) In regard to the agreements relating to the premises situate in Buildings 4A, 6B and 9 and Buildings 22 and 23 and connecting hellway to Building 12A, Landlord represents and warrants as of the date of the commencement of the terms thereunder, the heating system, sprintlers, sanitary facilities and plumbing shall be in working order.
- (7) If the agreement relating to Buildings 44, 68 and 9 shall be terminated by reason of condemnation, fire or other casualty, then, in any such event, Tenant shall have the right to terminate and cancel all or any of the other agreements where upon Tenant shall be reliaved and released of any further liability relating to the agreement so terminated and cancelled and

The Administration of the Community of t

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RESPONSE TO (136)

EXTENSION AND EXPIRED OF LEASE

WHEREAS, in June, 1975, Bulleville Industrial Center,
Inc., a New Jersey corporation, as Leadlord and HELION INDUSTRIES,
INC., a New Jersey corporation, as Tenant, entered into a lease for
premises known as the second floor of buildings 12 and 12A, in the
complex known as Belleville Industrial Center, (Approximately 3200
as outlined in green on sketch attached hereto
aq. ft), ho be used and occupied for Offices only, which lease
commenced on August 1, 1975 and will terminate on February 28,1980
AND WHEREAS, the parties hereto agree to extend and

AND WHEREAS, the parties hereto agree to extend and amend the term of said lease, in accordance with the following terms and conditions:

- The new term of said lease shall commence on February 29', 1980 and terminate on November 30, 1982.
 - 2. Rent for the said extended term shall be as follows
 2/29/80 to 11/30/80 \$2032.50 yearly; \$225.83 monthly.
 12 11/80 to 11/30/81 \$2850.00 yearly; \$237.50 monthly.
 12 11/81 to 11/30/82 \$3000.00 yearly; \$250.00 monthly.
- Paragraph 32nd is awanded so that the Tax Base Year
 is 1979.
- 4. Paragraph 33rd is amended so that the Springler Service charge is \$6.64 per month.
 - 5. Landlord agrees to do the following:
 - Repair roof leaks over men's room and hallway adjacent to men's room, repair damaged cailing and wall area.
 - 2) Repair floor in copying machine room and hellway add to copying machine room.

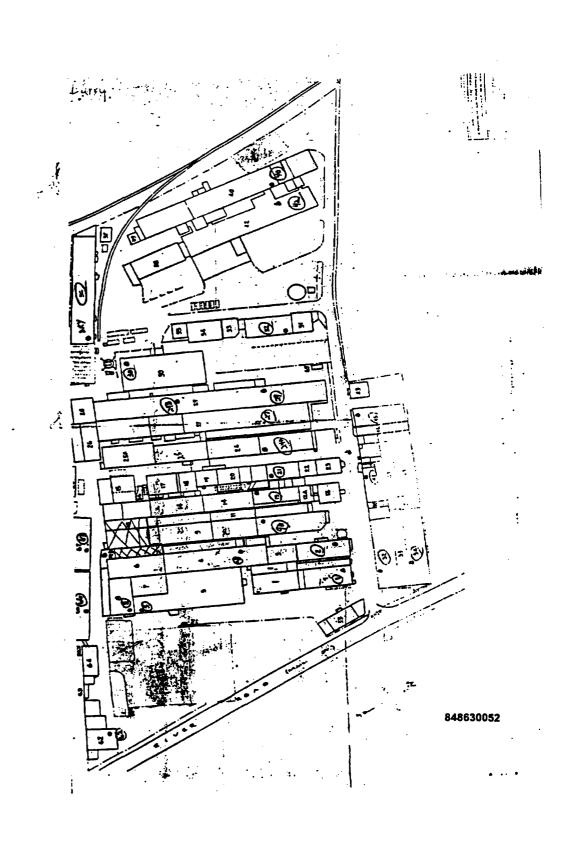
6. Except so hereinabove set forth, the aforeseid prior lease shall be modified or awanded as herein described, all of the terms, covenants and conditions of the aforcasid prior lease, shall remain in full force and effect during the extended term of this

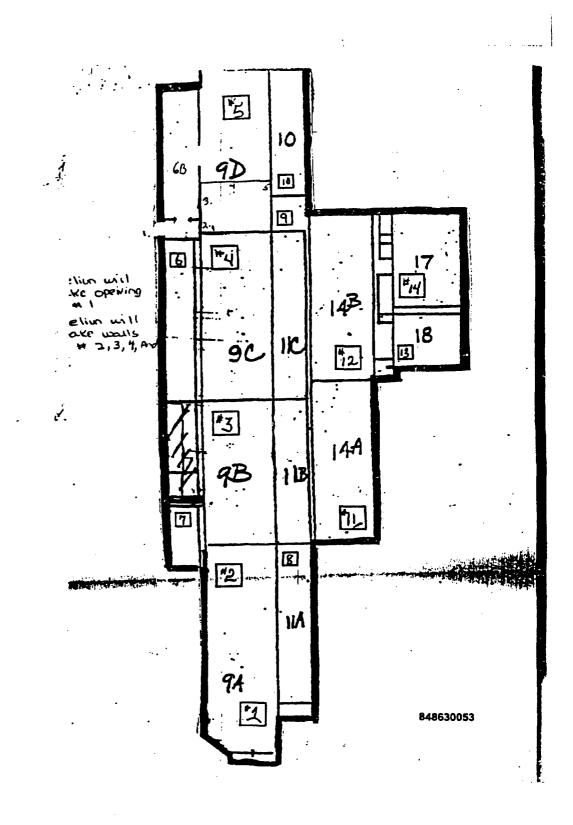
DATED: December

Ros HITA

BELLEVILLE THUBS HILL TENTER, INC.

/ Presiden





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EXTENSION AND MODIFICATION OF LEASE

Agreement made this 2 day of 25°C ,1995 by and between BELLEVILLE INDUSTRIAL CENTER, INC. A New Jersey corporation, having its principal place of business at 881 Main Street Bidg. 643, Believille, NJ 07109, (hereinatter called "Landford" and HELION INDUSTRIES, a New Jersey corporation, having its principal office at Believille, industrial Center, 881 Main Street, Believille, NJ 07109 (hereinatter called "Tenant").

WITNESSETH

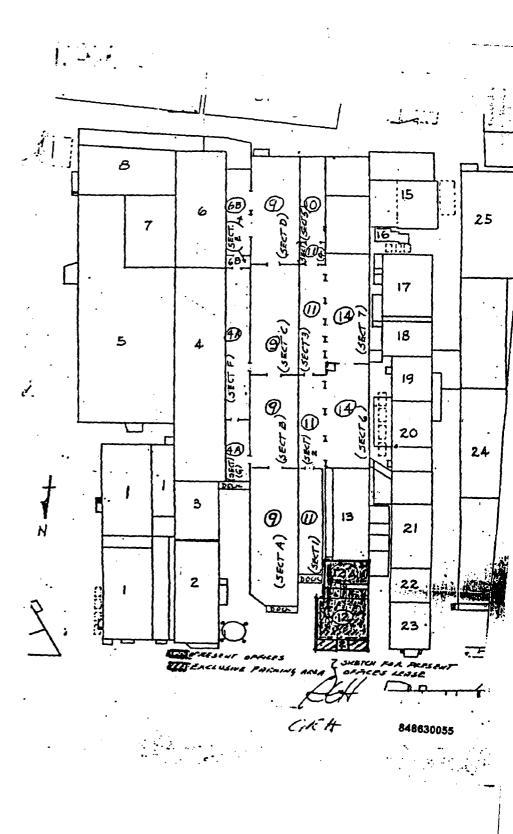
Whereas, there is presently existing a Lease and an addendum to lease agreement between Landford and Tenant, dated <u>December 1, 1985 and November 26, 1991</u> for premises known as Building (a) <u>8,44,68,9,10,11,12,124,14,17 and 18,2nd Floor Bidge, 22,8,23 in the industrial Complex known as Belleville Industrial Center, 681 Main Street, Belleville, New Jersey, (Approximately: 49,658 ag, ft.) and</u>

Whereas, the parties are desirous of modifying the aforesaid Lasse.

Now, therefore, in consideration of the aloresaid and the mutual covenants and conditions herein, the Darties agree as follows:

- The parties incorporate and make a part hereof all of the terms and conditions of the existing Lease and tease addendum dated December 1, 1965 and November 26, 1991 except as amended herein.
- 2. Helion Industries agrees to give up buildings 6B, part of 9D and 10 as per attached diagram by November 30, 1995 or sooner. The square footage that they are giving up is to be approximately 6,400 equare feet. Thus making the total of their new square footage to be approximately 43,256 square feet. Helion Industries also agrees to pay for and to build to code walls separating the space that they are giving up from the space that they are keeping. This wall will be completed by November 15, 1995 but not later than November 30, 1995. The separation of the gas and electric meters will be done by code and paid for by Ardwyn Binding. Bidg. 87. The Landford shall not be responsible for the construction of the new wall or for the separation of the utilities.
- 3. Helion will pay \$15,113.28 for the month of November 1995. Helion's new rent will be \$177,350.00 for the year, December 1, 1995 through December 31, 1997. This was determined by the (43,256) square foolage that was kept and by applying the same terms and conditions of the original lease and addendum dated December 1, 1985 to November 26, 1991. All terms and conditions of the original lease and addendum, November 26, 1991 will remain the same except for the equare foolage. The rent for the remaining years of the lease will be determined in the same manner as was the limit year on this modification:
 - 1. \$177,350.00
 2. \$187,991.00
 3. \$199,271.00
 4. \$211,227.00
 5. \$223,900.00
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ANNUAL REPORT FILING FORM

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CERTIFICATE OF AMENDMENT OF THE CERTIFICATE OF INCORPORATION OF

TEA-CHEM GRAPHICS, INC.

MAR 18 1974

To: The Secretary of State

State of New Jersey

Pursuant to the provisions of Section 14A: 9-2(4) and Section 14A: 9-4(3). Corporations, General, of the New Jersey Statutes, the undersigned corporation executes the following Certificate of Amendment to its Certificate of Incorporation:

- 1. The name of the corporation is TEA-CEEM GRAPHICS, INC.
- 2. The following amendment to the Certificate of Incorporation was approved by the directors and thereafter duly adopted by the shareholders of the corporation on the 26th day of February 1974.

Percived, that Article FIRST of the Certificate of Incorporation be amended to read as follows:

"FIRST: The name of the Corporation is HELION INDUSTRIES
INC."

- 3. The number of shares outstanding at the time of the adoption of the amendment was 430. The total number of shares entitled to vote thereon was 430.
- The number of shares voting for and against such amendment is as follows:

NUMBER OF SHARES VOTING FOR AMENDMENT NUMBER OF SHARES VOTING AGAINST AMENDMENT.

430

MONE

IN WITNESS WHEREOF, said corporation has made this certificate under the hand of its President this

TEA-CHEM GRAPHICS, INC

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NOTICE ABOUT UNSCANNABLE MAP

THIS MAP CAN BE FOUND IN THE SITE FILE LOCATED AT: U.S. EPA SUPERFUND RECORDS CENTER, 290 BROADWAY, 18TH FLOOR, NY, NY 10007. TO MAKE AN APPOINTMENT TO VIEW THE MATERIAL PLEASE CONTACT THE RECORD CENTER AT (212) 637-4308.

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REMEDIAL INVESTIGATION REPORT

FORMER HELION INDUSTRIES, INC.
BUILDINGS 11 and 18
BELLVILLE INDUSTRIAL CENTER
681 MAIN STREET
BELLVILLE, NEW JERSEY 07109
ISRA CASE# 20010286

Prepared For:

Bellville Industrial Center 681 Main Street Bellville, New Jersey 07109

Prepared By:

Langan Engineering and Environmental Services, Inc.
50 West State Street, Suite 1002
Trenton, New Jersey 08608
NJ Certificate of Authorization No: 24GA27996400

Michael Shorter

14 January 2005 1827403



TABLE OF CONTENTS

Secti	on No. Page No.
1.0	INTRODUCTION
2.0	PHYSICAL SETTING
3.0	PREVIOUS ENVIRONMENTAL INVESTIGATIONS
4.0	TECHNICAL OVERVIEW
5.0	FIELD AND ANALYTICAL METHODOLOGIES 8 5.1 Soil Sampling 8 5.2 Analytical Methods 9 5.3 Quality Assurance/Quality Control 9 5.3.1 Equipment Calibration 9 5.3.2 Equipment Decontamination 9
6.0	INVESTIGATION RESULTS
7.0	6.2.3 Conclusions and Recommendations

LIST OF TABLES

Table 1 Soil Sample Analytical Results

LIST OF FIGURES

Figure 1 Site Location Map

Figure 2 Soil Sample Locations & Exceedances

LIST OF APPENDICES

Appendix A NJDEP Correspondence

Appendix B Soil Boring Logs

Appendix C Laboratory Analytical Data

1.0 INTRODUCTION

Langan Engineering and Environmental Services, Inc. ("Langan") has prepared this report on behalf of the Belleville Industrial Center to summarize the findings of the remedial investigation conducted at the former Helion Industries leasehold located at the Belleville Industrial Center, 681 Main Street in Belleville, New Jersey ("study area"). The study area occupies a portion of Block 56, Lot 6 and includes contiguous buildings 4A, 6B, 9-11, 14, 17, and 18 and portions of separate buildings 12, 12A, 22 and 23. Helion ceased operations and vacated the leasehold in 2001 without complying with the Industrial Site Recovery Act (ISRA), and is currently filing for Chapter 11 Bankruptcy. As such, Belleville Industrial Center has undertaken the task of complying with ISRA on Helion's behalf. To date a General Information Notice, a 10 February 2003 *Preliminary Assessment Report*, and a 18 December 2003 Site Investigation Report has been filed with the NJDEP.

The objective of this remedial investigation was to evaluate specific areas of concern ("AOCs") that were identified in Langan's 18 December 2003 Site Investigation Report as requiring further actions and to comply with the requirements outlined in the NJDEP's 25 February 2004 letter (see Appendix A). This investigation was completed through a subsurface investigation and the analysis of soil samples. A Baseline Ecological Evaluation was not conducted during this phase of site investigation but will be conducted during the next phase of work after additional sampling is completed. Field activities were complete on 26 and 27 July 2004.

The following AOCs were investigated:

- AOC #2: Floor Drains, Trenches, Piping & Sumps; and,
- AOC #4: Hazardous Materials Storage or Handling Areas.

Three additional AOCs (AOC #1, AOC #3, and AOC #5) were also identified in the *Preliminary Assessment Report*. The former aboveground storage tanks located within building 17 were designated as AOC #1. No further actions were recommended as

analytical results reported no exceedances of unrestricted use NJDEP Soil Cleanup Criteria. The process area sinks located within buildings 4A and 9B within the leasehold were designated as AOC #3. No further actions were recommended as the sinks were connected to the facility's sanitary sewer system and there was no apparent evidence of process liquids entering the sinks. The loading or transfer areas in buildings 11A and 17 (transfer and loading areas, respectively) were designated as AOC #5. No further actions were recommended with relation to building 11A as only finished products were shipped from this location and no contamination issues were identified during the preliminary assessment. The loading area (building 17) was herein addressed in conjunction with AOC #1.

The Technical Overview in Section 5.0 provides an executive summary of site investigations.

2.0 PHYSICAL SETTING

2.1 Site Description and Location

The study area encompasses several buildings within the Belleville Industrial Center located at 681 Main Street in Belleville, Essex County, New Jersey. The study area occupies a portion of Block 56, Lot 6 and includes contiguous buildings 4A, 6B, 9-11, 14, 17, and 18 and portions of separate buildings 12, 12A, 22 and 23.

2.2 Property Ownership and Use

The former Helion leasehold is located within the Belleville Industrial Center complex. The following description discusses the history of the space that Helion occupied. Prior to 1906, the study area was undeveloped except for a 2½ story dwelling and an associated shed. Sometime between 1906 and 1938, the current buildings were constructed for use by Federal Leather until 1968. Belleville Industrial Center took ownership in 1970; after which, Helion Industries, Inc. (formerly Contrar, Inc.) began operations in the study area in 1975 under a lease agreement. Helion vacated the leasehold in 2001 and is

currently filing for Chapter 11 Bankruptcy. At this time, no operations are conducted within the leasehold, and the space is vacant.

2.3 Topography

The study area topography slopes downward from the west-northwest to the east-southeast towards the Passaic River. A copy of the Orange, United States Geological Survey 7.5-minute series topographic map is provided as Figure 1.

2.4 Geology

Site investigation field activities revealed that the subsurface stratigraphy is comprised of a layer of fill consisting of medium to coarse sand, with medium gravel. The thickness of the fill layer varies from approximately 4 ft to 12 ft with an average of 8 ft. The fill layer is underlain by natural fine to medium sand, with some fine to medium gravel and some sandy silt. As determined through an evaluation of the "Bedrock Geologic Map of Northern New Jersey", the bedrock underlying the study area is of the New Brunswick Formation and consists of sandstone.

2.5 Hydrogeology

Overburden groundwater was encountered at approximately 13-feet below ground surface ("bgs") during the October 2003 site investigation. During this remedial investigation groundwater was encountered at approximately 11-feet bgs. Groundwater flow direction is assumed to follow topography and flow to the east-southeast towards the Passaic River.

As bedrock groundwater was not investigated, for report completeness a map entitled "Aquifers of New Jersey" was evaluated and provided the description herein. Bedrock groundwater is classified as a fractured-rock aquifer of the Newark Basin. Groundwater is further classified as the Brunswick aquifer in which groundwater is stored and transmitted in the fractures of the bedrock. Groundwater is normally fresh, slightly alkaline, non-corrosive and hard. Pumping rates within the aquifer are typically less than 100 gallons to 250 gallons per

minute from high-capacity wells. Groundwater flow in bedrock is anticipated to follow topography and flow to the east-southeast towards the Passaic River. Groundwater existing beneath the site is classified by the NJDEP as "Class IIA", which is defined as a potable water source (i.e. domestic use, agricultural use, industrial use, etc.).

2.6 Surface Water

No surface water bodies are located within the study area. The closest water body is the Passaic River, which is located approximately 400 feet east-southeast of the study area. The waters of this portion of the Lower Passaic River are generally classified as saline and estuary (SE) waters according to the November 2003 NJDEP Surface Water Quality Standards.

3.0 PREVIOUS ENVIRONMENTAL INVESTIGATIONS

3.1 Preliminary Assessment Report, Langan Engineering & Environmental Services, Inc., 10 February 2003

Langan conducted a preliminary assessment to identify the presence of AOCs in the study area. A total of five AOCs were identified in the *Preliminary Assessment Report* dated 10 February 2003. Three AOCs (AOC#1: Above Ground Storage Tanks, AOC #2: Floor Drains, Trenches, Piping & Sumps, and AOC #4: Hazardous Materials Storage or Handling Areas) were recommended for further evaluation. No further actions were recommended for the remaining AOCs (AOC #3: Process Area Sink and AOC #5: Loading or Transfer Areas) as there was no evidence that indicated a release to the subsurface.

3.2 Site Investigation Report, Langan Engineering & Environmental Services, Inc., 18 December 2003

In October 2003 Langan conducted site investigations of three AOCs identified as requiring further investigation in the 10 February 2003 *Preliminary Assessment Report*. The following AOCs were investigated:

- AOC#1: Above Ground Storage Tanks;
- AOC #2: Floor Drains, Trenches, Piping & Sumps; and
- AOC #4: Hazardous Materials Storage or Handling Areas.

Subsurface investigation of AOC #1 consisted of six soil borings. Two soil borings (17A and 17B) were advanced within areas of heavy staining or disturbed concrete flooring in the former Tank Room (building 17). Four soil borings (14B-a, 14B-b, 14B-c and 14B-d) were advanced either in, or adjacent to, the trenching system in the former Mixing Room (building 14B). No further actions were recommended for AOC #1 as analytical results reported no exceedances of unrestricted use NJDEP Soil Cleanup Criteria in the vicinity of the former tanks.

Subsurface investigation of AOC #2 consisted of soil borings 4A-a, 4A-b, 4A-c, 9C-a, 9C-b, 11C-a, 11C-b, and 18 which were advanced either adjacent to, or through, the trenches and sump. Analytical results indicated exceedances of volatile organic compounds in 11C-a, 11C-b, and 18 and semi-volatile compound exceedances in 11C-a and 18 above the unrestricted use NJDEP Soil Cleanup Criteria. Additionally, antimony and copper were above the unrestricted use NJDEP Soil Cleanup Criteria in soil sample 18. A remedial investigation was recommended to confirm the original exceedances and determine the extent of contamination.

Subsurface investigation of AOC #4 consisted of soil boring 11B and was advanced to evaluate potential subsurface impacts. One soil sample was collected from beneath the concrete (0.5 - 1-feet) and analyzed for total petroleum hydrocarbons, priority pollutants plus forty, and pH. Analytical results

reported trichloroethene (1.1 mg/kg) marginally exceeding unrestricted use NJDEP soil cleanup criteria of 1 mg/kg. A remedial investigation was recommended to confirm the concentration and if necessary determine the extent of contamination.

4.0 TECHNICAL OVERVIEW

This section briefly describes the sampling program, the quality of the analytical data, and an overall assessment of impacts to the study area. In addition, a proposed approach for addressing identified soil contamination is provided within.

4.1 Sampling Program

The site investigation sampling program was completed in accordance with the Technical Requirements for Site Remediation (7:26E). Field activities consisted of advancing nineteen soil borings to facilitate field screening with a photo ionization detector and the examination of soil for the presence of visual and olfactory indicators of contamination. In accordance with the site investigation objectives or where contamination was present, soil samples were collected for laboratory analysis. Specifically, volatile organic compounds, polynuclear aromatic hydrocarbons, and total petroleum hydrocarbon analysis was performed in AOCs, exhibiting exceedances of these compounds during the October 2003 site investigation.

4.2 Analytical Data Quality Assessment

Sample analyses were performed in accordance with the following documents:

- "Test Method for Evaluating Solid Waste", SW-846, 3rd Edition;
- Federal Register, 40 CFR Part 136;
- "Methods for the Determination of Metals in Environmental Samples", EPA/600/4-91/010, June 1991;
- Technical Requirements for Site Remediation (7:26E);

- "Methods of the Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983; and,
- "American Society for Testing and Materials" (ASTM), June 1991.

The overall assessment of data quality is acceptable. Sample surrogates, tuning, calibration, internal standard areas and retention times were within control limits.

4.3 Overall Assessment of Impacts

Subsurface soil borings were advanced to evaluate AOC #2: Floor Drains, Trenches, Piping & Sumps and AOC #4: Hazardous Materials Storage or Handling Areas. For ease of discussion each AOC is discussed separately below.

AOCs #2: Floor Drains:

Elevated levels of trichloroethene were detected in soil samples 11C-b (9.5'-10'), 11C-b4 (0.5'-1.'), 18B (0.5'-1'), and 18C (0.5'-1'). Elevated levels of tetrachloroethene were detected in soil samples 11C-b (9'-9.5') and 11C-b4 (0.5'-1'). The contaminants are believed to be attributable to effluent that discharged to the sumps and the numerous former chemicals that were utilized within the leasehold by Helion. Remedial investigation activities confirm the following:

- Vertical delineation and horizontal delineation to the north is incomplete
 for trichloroethene and tetrachloroethene surrounding and adjacent to soil
 sample 11C-b. Horizontal delineation is complete to the east, west, and
 south. A remedial investigation is recommended to delineate the
 exceedances;
- Horizontal delineation to the west and south is incomplete for trichloroethene surrounding soil sample 18. Vertical delineation is complete. Horizontal delineation is complete to the north and east; and
- Horizontal and vertical delineation is complete surrounding soil sample 11C-a.

AOC #4: Hazardous Materials Storage or Handling Areas:

Elevated levels of trichloroethene were detected in soil samples 11B-1 (0.5'-1'), 11B-3 (0.5'-1'), 11B-4(0.5'-1'). The contaminants are believed to be attributable to former chemicals that were utilized within the leasehold by Helion. Remedial investigation activities confirm the following:

 Horizontal delineation to the north, south, and west is incomplete for trichloroethene surrounding soil sample 11-B. Horizontal delineation is complete to the east. Vertical delineation is complete. A remedial investigation is recommended to delineate the exceedances.

5.0 FIELD AND ANALYTICAL METHODOLOGIES

The following is a discussion of the methodologies utilized during the completion of the site investigation. All work was conducted in accordance with the NJDEP Technical Requirements for Site Remediation (7:26E), as previously mentioned.

5.1 Soil Sampling

Soil borings were completed by using a track-mounted Geoprobe™. The Geoprobe™, which was operated by a trained technician from Environmental Field Service, Inc. of Marlton, NJ, was used to extract soil cores from the subsurface in an acetate-lined 4-foot long by 2-inch diameter sampling tube. All collected soil cores were inspected, field screened with a photo ionization detector, examined for visual and/or olfactory evidence of contamination, and logged (see Appendix B). Afterwards, soil samples were collected in conformance with site investigation objectives or at intervals likely to contain potential soil impacts. Each soil sample was field homogenized (volatile organic compounds were collected with a syringe from an undisturbed sample in accordance with NJDEP Field Extraction/Methanol Preservation Method) and placed in laboratory provided containers. After the designation of a sample identification number, soil samples were sealed, labeled, packed on ice,

documented following proper chain of custody procedures and delivered by courier to a NJDEP-certified laboratory for analysis. After the desired depth of each soil boring was achieved, the boreholes were backfilled, sealed and located on a site plan.

5.2 Analytical Methods

Sample analyses were performed by Veritech Laboratory of Hampton-Clarke, Inc. of Fairfield, New Jersey (NJDEP Laboratory Certification No. 14622). All results were reported according to the format specified for New Jersey Level IV QC & Data Packages - Reduced Laboratory Data Deliverables for Non-USEPA CLP Methods. The analytical methods are summarized in Table 1.

5.3 Quality Assurance/Quality Control

5.3.1 Equipment Calibration

The photo ionization detector used in the field was calibrated at the beginning and end of each day. It was calibrated to 100 ppm (± 1 ppm) with isobutylene. If a reading was suspect, the detector's response was checked. If a poor response was observed, the detector was recalibrated.

The gram scale utilized for weighing volatile soil samples was calibrated daily with a 200-gram weight. If measurements were suspect, the gram scale was re-calibrated.

5.3.2 Equipment Decontamination

When possible, decontaminated, disposable equipment was utilized during sample collection. Where reusable equipment was utilized, the following decontamination procedure was used to reduce the possibility of cross-contamination:

- 1) Sampling equipment (i.e. stainless steel trowels and bowls, Geoprobe rods, etc.) was wiped clean and rinsed with deionized water;
- 2) these items were then scrubbed with Liquinox soap and water to remove any remaining debris;
- 3) the equipment was then rinsed with deionized water;
- 4) followed by a 10% nitric acid and hexane rinse; and,
- 5) finally, rinsed with deionized water.

6.0 INVESTIGATION RESULTS

The objective of the remedial investigation was to evaluate AOCs that were identified in Langan's Site Investigation Report as requiring further actions. The remedial investigation was completed to evaluate the following AOCs:

- AOC #2: Floor Drains, Trenches, Piping and Sumps; and,
- AOC #4: Hazardous Material Storage or Handling Areas.

The results of the remedial investigation are presented within this section. Backup for the results are provided in supporting tables, figures, and appendices. Specifically, sample summary results are provided in Table 1, soil boring logs and laboratory data are provided in Appendices B and C. Sampling locations are illustrated on Figure 2.

As required by the Technical Requirements for Site Remediation, the results are compared against the NJDEP unrestricted use criteria to establish the basis for a conclusion as to the environmental condition of the study area and impact from historical industrial operations. In instances where results indicate an exceedance of the unrestricted use criteria, investigative actions are recommended.

6.1 AOC #2: Floor Drains, Trenches, Piping, and Sumps

6.1.1 Description

The locations of the floor drains, trenches and sumps are shown on Figure 2. Floor drains, trenches and sumps were used by Helion to direct process wastewaters to the property's sewer system and ultimately the Passaic Valley Sewage Commission. The discharge of the process wastewater stream was permitted by Passaic Valley Sewage Commissioners through a Sewer Use Permit. Remedial investigation activities were conducted to determine the full extent of volatile organic, semi-volatile organics, and metal contamination surrounding soil samples 11C-a, 11C-b, and 18.

6.1.2 Findings

A remedial investigation was conducted surrounding and adjacent to soil samples 11C-a, 11C-b, and 18 which reported exceedances of volatile organic compounds, polynuclear aromatic hydrocarbons, antimony, and copper during the site investigation. Soil sample locations are provided on Figure 2. A total of fourteen soil samples were advanced as indicated below:

Silelivestigation Soil Samales	lianedahiresigation Soll Sampia
11C-a	11C-a(7.5-8), 11C-a1(0.5-1.0), 11C-a2(0.5-1.0), 11C-a3(0.5-
	1.0), and 11C-b2(0.5-1.0)
11C-b	11C-b(9.5-10), 11C-b1(0.5-1.0), 11C-b2(0.5-1.0), 11C-
	b3(0.5-1.0), and 11C-b4(0.5-1.0),
18	18(2.5-3), 18A (0.5-1.0), 18B (0.5-1.0), 18C (0.5-1.0), and
	18D (0.5-1.0).

Field screening was completed to 12-feet bgs and identified elevated photo ionization readings ranging from 10 ppm to 71.5 ppm which

correlated to apparent soil staining and odors. Soil boring logs are provided in Appendix B.

From soil borings 11C-a1(0.5'-1'), 11C-a2(0.5'-1'), 11C-a3(0.5'-1'), 11C-b2(0.5'-1'), 11C-b2(0.5'-1'), 11C-b3(0.5'-1'), 11C-b4(0.5'-1'), 18A(0.5'-1'), 18B(0.5'-1'), 18C(0.5'-1'), and 18D(0.5'-1') one soil sample was collected at 0.5 to 1-foot bgs to determine the horizontal extent of contamination. From soil borings 11C-a(7.5'-8'), 11C-b(9.5'-10'), and 18(2.5'-3') the selected sample interval was biased towards areas exhibiting no obvious staining or odors for the purpose of vertical delineation

Analytical results indicate exceedances of the unrestricted use Soil Clean up Criteria for the following samples:

Summary of Parameters that Exceed Unrestricted Use NJDEP Soil Cleanup Criteria

VOCs		P Soil Cl eria (mg		11C-b4 (0.5-1.0) (mg/kg)	<u>18-B</u> (0.5-1.0) (mg/kg)	<u>18-C</u> (0.5-1.0) (mg/kg)	<u>11C-b</u> (<u>9-9.5)</u> (mg/kg)
Tetrachloroethene	4	6	1	1.6	ND	ND	1.5
Trichloroethene	23	54	1	2.2	3.0	1.1	12.0

Bold and italicized font indicates an exceedance of unrestricted use criteria. ND: Not Detected

Analytical results for soil samples 11C-a (7.5'-8'), 11C-a1 (0.5'-1'), 11Ca-2(0.5'-1), 11C-a3 (0.5'-1'), and 11C-b2 (0.5'-1') surrounding and adjacent to previous sample 11C-a did not indicate any exceedances of unrestricted use NJDEP Soil Cleanup Criteria.

The findings of the remedial investigation activities confirm the following:

o Vertical delineation and horizontal delineation to the north is incomplete for trichloroethene and tetrachloroethene surrounding and adjacent to soil sample 11C-b. Horizontal delineation is complete to the east, west, and south. A remedial investigation is recommended to delineate the exceedances:

- Horizontal delineation to the west and south is incomplete for trichloroethene surrounding soil sample 18. Vertical delineation is complete. Horizontal delineation is complete to the north and east; and
- Horizontal and vertical delineation is complete surrounding soil sample 11C-a.

6.1.3 Conclusions and Recommendations

The reported chlorinated solvent exceedances noted in11C-b4 (0.5'-1'), 18-B (0.5'-1'), 18-C (0.5'-1'), and 11C-b (9'-9.5') are likely attributable to the nearby sump and the former effluent that was received by the sump, and is not believed to be fill related. As noted in the 10 February 2003 *Preliminary Assessment Report*, Helion utilized a variety of hazardous materials, including solvents in their operations.

Additional remedial investigation is recommended to complete the delineation of the exceedances. Recommended subsurface sampling is presented below:

Summary of Proposed Sample Locations

ing/southbers	मिणुरुञ्जल-विक्राचान-विक्रमाणाः
18B(0.5-1.0):	Collect one surface samples to the west.
trichloroethene (1.1 mg/kg)	
18C(0.5-1.0):	Collect one surface samples to the west.
trichloroethene (3.0 mg/kg)	
11C-b(9.5-10):	Collect one sample at depth for vertical delineation.
trichloroethene (12 mg/kg) and	
tetrachloroethene (1.5 mg/kg))	
11C-b4(0.5-1.0):	Collect three surface samples to the north, northeast, and
trichloroethene (2.2 mg/kg) and	east.
tetrachioroethene (1.6 mg/kg))	

6.2 AOC #4: Hazardous Material Storage or Handling Areas

6.2.1 Description

The locations of the hazardous material storage and handling areas are shown on Figure 2. Liquid and powder chemicals were stored in various containers (bags, pails, drums, and above ground storage tanks) within buildings 6B, 9C, 11B, 11C, 14B, 17, & 18 and were processed during Helion's operations in buildings 9C, 11C, and 14B. As noted during the preliminary assessment, heavy staining and pitting were noted on the concrete ground surface within these areas. A site investigation was conducted at areas of staining and breaches in the concrete ground surface and identified subsurface contamination. Additional site investigation was recommended to determine the full extent of contamination.

6.2.2 Findings

Soil borings 11B (4.5'-5'), 11B-1(0.5'-1'), 11B-2(0.5'-1'), 11B-3(0.5'-1'), and 11B-4(0.5'-1') were advanced surrounding and adjacent to soil sample 11B which reported an exceedance of trichloroethene. Soil sample locations are provided on Figure 2.

Field screening was completed to 8-feet bgs and identified elevated photo ionization readings ranging from 9.6 ppm to 235 ppm. Soil boring logs are provided in Appendix B.

From soil borings 11B-1(0.5'-1'), 11B-2(0.5'-1'), 11B-3(0.5'-1'), and 11B-4(0.5'-1') one soil sample was collected at 0.5 to 1-foot bgs to determine the horizontal extent of contamination. From soil boring 11B (4'-4.5'), the selected sample interval was biased to an area exhibiting no obvious staining or odors for the purpose of vertical delineation.

Analytical results indicate exceedances of trichloroethene in soil samples 11B-1(0.5'-1'), 11B-3(0.5'-1'), and 11B-4(0.5'-1') above the unrestricted use NJDEP Soil Cleanup Criteria. The following concentrations were detected:

Summary of Parameters that Exceed Unrestricted Use NJDEP Soil Cleanup Criteria

VOCs	NJDEI <u>Crit</u>	P Soil Cl eria (mg	eanup /kg/	11B-1 (0.5-1.0) (mg/kg)	11B-3 (0.5-1.0) (mg/kg)	11B-4 (0.5-1:0) (mg/kg)
Trichloroethene	23	54	1	8.2	19	1.6

Bold and italicized font indicates an exceedance of unrestricted use criteria. ND: Not Detected

Analytical results for soil samples 11B (2.5'-3') and 11B-2(0.5'-1') adjacent and surrounding previous sample 11B, did not indicate any exceedances of unrestricted use NJDEP Soil Cleanup Criteria.

The findings of the remedial investigation activities confirm that horizontal delineation to the north, south, and west is incomplete for trichloroethene surrounding soil sample 11-B. Horizontal delineation is complete to the east and vertical delineation is complete. A remedial investigation is recommended to delineate the exceedances.

6.2.3 Conclusions and Recommendations

The reported trichlorethene exceedances reported in 11B-1(0.5'-1'), 11B-3(0.5'-1'), and 11B-4(0.5'-1') are likely attributable to the former hazardous materials stored/handled in the building.

Additional remedial investigation is recommended to complete the delineation of the exceedances. Recommended subsurface sampling is presented below:

isangung Single	เส็ดอุดรสงเรากับประเทศการ
11B-1(0.5-1.0):	Collect two surface samples to the north and east.
Trichloroethene (8.2 mg/kg)	
11B-3(0.5-1.0):	Collect two surface samples to the southwest and southeast.
Trichloroethene (19.0 mg/kg)	-
11B-4(0.5-1.0)	Collect one surface samples to the west.
Trichloroethene (12 mg/kg)	

7.0 REFERENCES

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Table 1
Soil Sample Analytical Results
Helion Industries, Inc.

Sample ID:	NJDEP	Soil Cleanup	Criteria	11C-B(9	5-10.01	11C	-81	11C-	B2	11C	-B3	110	B4	11C-A(7	5-8.01	110	-A1	11C-	A2	11C-	A3
Sample Depth:	1	(mg/kg)		(9.5-1		(0.5-		(0.5-		(0.5-		(0.5-	1.0)	(7.5-		(0.5-1.0)		(0.5-	1.0)	(0.5-	1.0)
Veritech ID:	·		Impact to	AC136		AC136		AC1362		AC1362		AC136		AC136		AC1362	26-007	AC1362		AC1362	
Sample Date:	Residential	Non-	Ground-	7/27/		7/27/		7/27/		7/27/		7/27/		7/27/		7/27/		7/27/		7/27/	
Units:	1	Residential	water		ma/ka		mg/kg		mg/kg		/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
		<u> </u>		,,,,,	<u> </u>		NA .			1 11198-19				1 1159/69				1			
VOLATILE ORGANIC COMP	OUNDS																				
1.1.1-Trichloroethane	210	1000	50	0.57	0.20	0.59	Ü	0.60	U	0.58	Ū I	0.60	U	0.56	U	0.60	ŪΠ	0.61	U	0.60	Ū
1,1,2,2-Tetrachloroethane	34	70	1	0.57	U	0.59	Ū	0.60	U	0.58	U 1	0.60	Ü	0.56	Ü	0.60	Ū	0.61	Ü	0.60	Ū
1,1,2-Trichloroethane	22	420	1	037	Ü	0.59	U	0.60	Ū	0.58	Ü	0.60	ū	0.56	Ū	0.60	Ū	0.61	U	0.60	Ü
1,1-Dichloroethane	570	1000	10	0.57	Ŭ	0.59	U	0.60	Ū	0.58	Ü	0.60	Ü	0.56	Ü	0.60	Ü	0.61	Ü	0.60	Ū
1.1-Dichloroethene	8	150	10	0.57	Ū	0.59	Ü	0.60	Ū	0.58	Ū	0.60	Ū	0.56	- i	0.60	Ü	0.61	Ü	0.60	U
1,2-Dichloroethane	6	24	ī	0.57	Ū	0.59	Ü	0.60	Ū	0.58	Ü	0.60	Ū	0.56	Ü	0.60	Ū	0.61	Ū	0.60	U
1,2-Dichloropropane	10	43	NS	0.57	Ü	0.59	Ü	0.60	- Ū	0.58	Ū	0.60		0.56	Ť	0.60	ū	0.61	Ū	0.60	Ū
2-Butanone	1000	1000	50	2.9	Ŭ	2.9	Ü	3.0	- ŭ-	2.9	- ŭ	3.0	- Ŭ	2.8	- u	3.0	Ü	3.0	ŭ	3.0	- ŭ
2-Chloroethylvinylether	NS	NS	NS	0.57	ü	0.59	Ü	0.60	ŭ	0.58	Ü	0.60	Ü	0.56	Ü	0.60	Ü	0.61	- ŭ	0.60	ŭ
2-Hexanone	NS.	NS NS	NS	2.3	Ü	2.4	ü	2.40	- ü-	2.3	Ü	2.4	Ü	2.3	Ü	2.4	Ü	2.4	Ü	2.4	- Ū
4-Methyl-2-Pentanone	1000	1000	50	2.3	Ŭ	2.4	U	2.40	Ü	2.3	Ü	2.4	Ü	2.3	ŭ	2.4	Ü	2.4	Ü	2.4	Ü
Acetone	1000	1000	100	2.3	Ü	2.4	Ü	3.0	Ü	2.9	Ü	3.0	Ü	2.8	Ü	3.0	Ü	3.0	Ü	3.0	Ü
Acrolein	NS	NS	NS	1.7	Ü	1.8	Ü	3.0	Ü	2.9	Ü	3.0	Ü	2.8	Ü	3.0	Ü	3.0	Ü	3.0	Ü
Acrylonitrile	1 1	5	1	0.57	Ü	0.59	Ü	0.60	Ü	0.58	- 0 -	0.60	Ü	0.56	Ŭ	0.60	Ŭ	0.61	Ü	0.60	Ü
Benzene	1 3	13	 	0.11	0.16	0.12	Ü	0.12	ŭ	0.12	Ŭ	0.12	Ü	0.11	Ü	0.12	ŭ	0.12	Ü	0.12	Ŭ
Bromodichloromethane	11	46	1 1	0.57	U	0.59	Ü	0.60	Ü	0.58	Ü	0.60	Ü	0.56	Ü	0.60	- ŭ	0.61	Ü	0.60	ü
Bromoform	86	370	1 1	0.57	Ü	0.59	Ü	0.60	ü	0.58	ΰ	0.60	Ü	0.56	Ü	0.60	ŭ	0.61	Ü	0.60	Ü
Bromomethane	79	1000	i	0.57	Ü	0.59	ŭ	0.60	Ü	0.58	ŭ	0.60	U	0.56	Ü	0.60	Ü	0.61	u	0.60	Ü
Carbon Disulfide	NS.	NS	NS	0.57	ŭ	0.59	Ü	0.60	ů	0.58	Ü	0.60	Ü	0.56	Ü	0.60	- ŭ	0.61	Ŭ	0.60	Ü
Carbon Tetrachloride	2	4	1	0.57	Ü	0.59	Ü	0.60	ŭ	0.58	Ü	0.60	Ü	0.56	Ü	0.60	l ü	0.61	Ü	0.60	Ŭ
Chlorobenzene	37	680	 	0.57	ü	0.59	Ü	0.60	ü	0.58	Ü	0.60	ü	0.56	ŭ	0.60	Ü	0.61	Ü	0.60	l ü
Chloroethane	NS.	NS	NS	0.57	- ŭ	0.59	Ü	0.60	Ü	0.58	Ü	0.60	Ü	0.56	Ü	0.60	ŭ	0.61	Ü	0.60	Ŭ
Chlorotorm	19	28	1	0.57	Ü	0.59	Ü	0.60	ŭ	0.58	0	0.60	Ü	0.56	Ü	0.60	Ü	0.61	Ü	0.60	Ü
Chloromethane	520	1000	10	0.57	U	0.59	Ü	0.60	ŭ	0.58	Ü	0.60	Ü	0.56	ü	0.60	ŭ	0.61	ŭ	0.60	ü
cis-1,2-Dichloroethene	79	1000	1	0.57	0.27J	0.59	Ŭ	0.60	Ü	0.58	Ŭ	0.60	0.44	0.56	Ü	0.60	l ü	0.61	0.44J	0.60	Ü
cis-1.3-Dichloropropene	NS	NS	NS	0.57	U	0.59	Ü	0.60	Ŭ	0.58	Ü	0.60	U	0.56	Ŭ	0.60	† ŭ	0.61	U	0.60	Ü
Dibromochloromethane	110	1000	1 1	0.57	Ü	0.59	ŭ	0.60	Ü	0.58	Ū	0.60	Ü	0.56	Ü	0.60	Ü	0.61	Ü	0.60	Ť
Ethylbenzene	1000	1000	100	0.11	Ū	0.12	Ü	0.12	Ü	0.12	Ü	0.12	Ū	0.11	Ü	0.12	T ü	0.12	Ů	0.12	T U
M&P-Xvienes	410	1000	67	0.23	Ü	0.24	ŭ	0.24	0.31	0.23	0.21J	0.24	0.19J	0.23	0.13J	0.24	0.14J	0.24	0.133	0.24	ΙŬ
Methylene Chloride	49	210	1	0.57	0.24JB	0.59	0.3618		0.34J	0.58	0.35J	0.60	0.4.1	0.56	0.42J	0.60	0.54J	0.61	0.15	0.60	0.15
O-Xylene	410	1000	67	0.11	U	0.12	U	0.12	U	0.12	U	0.12	U	0.11	U	0.12	11	0.12	U	0.12	U.100
Styrene	23	97	100	0.11	T Ü	0.12	Ŭ	0.60	Ü	0.58	Ü	0.60	Ü	0.56	Ü	0.60	 ŭ	0.61	ŭ	0.60	T U
Tetrachloroethene	1 4	6	1	0.57	1.5	0.59	0.13J	0.60	0.46	0.58	Ü	0.60	1.6	0.56	l ŭ	0.60	ü	0.61	0.20	0.60	Ü
Toluene	1000	1000	500	0.11	0.49	0.12	U	0.12	U	0.12	Ť	0.12	Ü	0.11	Ü	0.12	ŭ	0.12	U	0.12	Ü
trans-1,2-Dichloroethene	1000	1000	50	0.57	U	0.59	Ü	0.60	T U	0.58	l ü	0.60	T U	0.56	Ü	0.60	1 0	0.12	U	0.60	Ü
trans-1,3-Dichloropropene	4	5	1 1	0.57	l ü	0.59	Ü	0.60	 	0.58	l ü	0.60	Ü	0.56	Ü	0.60	1 - 6	0.61	l ü	0.60	1 0
Trichloroethene	23	54	 	0.57	12	0.59	0.28	0.60	0.92	0.58	0.26J	0.60	2.2	0.56	U	0.60	1 0	0.61	l ü	0.60	1 0
Vinvl Chloride	23	7	10	0.57	1 U	0.59	U.200	0.60	U.32	0.58	U	0.60	U	0.56	l U	0.60	1 ::-	0.61	l u	0.60	+ ∵
LAIDAL CHIOLIDA		''	1 10	1 0.57	<u> </u>	1 0.03		1 0.00	<u> </u>	1 0.56		1 0.00		0.50	<u> </u>	1 0.00	1 0	1 0.01	1 0	1 0.60	1 0
TiCs	NS	T NS	I NS	Т —	1 0	Γ	0	1	T o	1	Ιo	Т	1 0		0	T	1 0	1	0	r	0
TOTAL VOC (TICs+VOCs)	143	1.000	1 110	+	14.86		0.77	+	2.03	 	0.82	 	4.83	 	0.55	 	0.68	 	0.92	 -	0.15
LOINE VOC (HOST VOCS)		1,000			14.00		1 0.77	ــــــــــــــــــــــــــــــــــــــ	1 4.03		0.02	1	1 4.03	ь	0.55	i	1 0.08	<u> </u>	1 0.92		1 0.15

Table 1 Soil Sample Analytical Results Helion Industries, Inc.

Sample ID:	NJDEP	Soil Cleanup	Criteria	11C-B(9	.5-10.0)	110	-B1	11C	-B2	110	-B3	110	-B4	11C-A(7	.5-8.0)	110	-A1	110	-A2	11C-	-A3
Sample Depth:	l	(mg/kg)		(9.5-	10.0)	(0.5	1.0)	(0.5-	1.0)	(0.5-	1.0)	(0.5-	1.0)	(7.5-	8.0)	(0.5	1.0)	(0.5	-1.0)	(0.5-	1.0)
Veritech ID:		Non-	Impact to	AC136	26-001	AC136	26-002	AC1362	26-003	AC136	26-004	AC136	26-005	AC1362	26-006	AC136	26-007	AC136	26-008	AC1362	26-009
Sample Date:	Residential	Residential	Ground-	7/27/	2004	7/27/	2004	7/27/	2004	7/27/	2004	7/27/	2004	7/27/7	2004	7/27/	2004	7/27/	2004	ון בין ד	2004
Units:	1	1 tesidential	water	mg	/kg	mg	/kg	mg.	/kg	mg	/kg	mg	/kg	mg/	/kg	mg	/kg	mg	/kg	mg/	/kg
BASE NEUTRAL & ACID EXT	TRACTABLE	COMPOU	NDS																		
Acenaphthene	3,400	10,000	100	_			-	0.40	U	_		-		0.38	U	0.41	C	0.41	U	0.40	υ
Acenaphthylene	NS	NS	NS		_		-	0.40	U	-	_	_		0.38	U_	0.41	Ü	0.41	U	0.40	U
Anthracene	10,000	10,000	100	:-		-	_	0.40	U		-	_		0.38	U	0.41	Ų	0.41	U	0.40	U
Benzo(a)anthracene	0.9	4	500		-	-	_	0.40	U	-	_		_	0.38	U	0.41	0.11J	0.41	0.11J	0.40	υ
Benzo[a]pyrene	0.66	0.66	100			-	-	0.40	U	_	_			0.38	U	0.41	0.11J	0.41	0.11J	0.40	U
Benzo(b)Fluoranthene	0.9	4	50	-		_		0.40	U	-			_	0.38	U	0.41	0.17J	0.41	0.16J	0.40	C
Benzo[g,h,l]perylene	NS	NS	NS	T	_			0.40	U	T -	_	-		0.38	U	0.41	0.095J	0.41	0.081J	0.40	۲
Benzo(k)Fluoranthene	0.9	4	500	T -		<u> </u>	-	0.40	U	I –				0.38	U	0.41	0.066J	0.41	0.068J	0.40	C
Chrysene	9	40	500	_	-			0.40	U	T				0.38	U	0.41	0.13J	1.41	0.13J	0.40	C
Dibenzo(a,h)anthracene	0.66	0.66	100		1	_	_	0.40	٥				1	0.38	U	0.41	Ü	1,41	U	0.40	C
Fluoranthene	2,300	10,000	100		1	-		0.40	٥	_				0.38	U_	0.41	0.16J	0.41	0.16J	0.40	J
Fluorene	2,300	10,000	100	J	+			0.40	U	-	_	<u> </u>		0.38	U	0.41	Ü	0.41	Ü	0.40	٥
Indeno[1,2,3-cd]pyrene	0.9	4	500		-	L	-	0.40	U	L_=_				0.38	U	0.41	0.082J	1.41	0.072J	0.40	U
Naphthalene	230	4,200	100	I <u> </u>			-	0.40	U	<u> </u>				0.38	U	1.38	U	2.38	U	0.40	υ
Phenanthrene	NS	NS	NS		_		_	0.40	U	<u> </u>			-	0.38	U	1.38	0.041J	2.38	U	0.40	U
Pyrene	1,700	10,000	100					0.40	U	<u> </u>				0.38	U	1.38	0.16J	2.38	0.16J	0.40	U
TICs	NS	NS	NS	-					0			<u> </u>			0	<u> </u>	0		0		0
TOTAL BNs (TICs+BNs)	<u> </u>	10,000		<u> </u>	L =	<u> </u>		<u>L-</u>	U	<u> </u>	<u> </u>	<u> </u>	<u> </u>	L=_	U	<u>L=</u>	l U		U		U
METALS											_										
Antimony	14	340	NS	-		<u> </u>				I –		_						_			T -
Copper	600	600	NS		-	_	-	-			_	T -	- T			T =	_	_		-	_

NS: Not Specified

U: Not detected at the listed MDL

--: Not analyzed

J: Estimated concentration below the MDL.

B: Detected in the blank.

Bold and outlined results indicate an exceedance of criteria

Table 1 Soil Sample Analytical Results Helion Industries, Inc.

Sample ID:	NJDEP	Soil Cleanup	o Criteria	18(2.5	≻3.0)	18		18		18		18		11B(4.5		118		11B		118	_	1184	TBO	72704	FB07	<u> 270</u> 4
Sample Depth:		(mg/kg)		(2.5-3	3.0)	(0.5-	1.0)	(0.5-	1.0)	(0.5-	1.0)	(0.5-	1.0)	(4.5-	5.0)	(0.5-1	(0.	(0.5-1	.O) T	(0.5-	1.0)	(0.5-1.0)		L		
eritech ID:	1	Non	Impact to	AC1362	26-010	AC1362	6-011	AC1362	26-012	AC1362	26-013	AC1362	6-014	AC1362	6-015	AC1362	6-016	AC1362	6-017	AC1362	6-018	AC13626-0	9 AC13	526-021	AC1362	26-0
ample Date:	Residential	Non-	Ground-	7/26/2	2004	7/26/2	2004	7/26/	2004	7/26/2	2004	7/26/2	2004	7/26/2	004	7/26/2	004	7/26/2	004	7/26/2	2004	7/26/2004	7/26	/2004	7/27/	200
Inits:	1	Residential	water	mg/	/kg	mq/	kg	mg	/kg	mg/	kg .	mg/	kg	mg/	kg	mg/	kg	mg/l	g	mg/	kg	mg/kg	m	g/kg	υg	/L
		·																								
OLATILE ORGANIC COMP	OUNDS																									
.1.1-Trichloroethane	210	1000	50	0.59	U	0.64	U	0.56	U	0.59	Ü	0.61	U	0.65	U	0.48	U	0.60	U	0.58	U	0.60 L	0.50	U	5.0	
1.2.2-Tetrachloroethane	34	70	1	0.59	U	0.64	Ū	0.56	U	0.59	U	0.61	U	0.65	U	0.48	U	0.60	U	0.58	U	0.60 L	0.50	U	50	
.1.2-Trichloroethane	22	420	1	0.59	Ū	0.64	-Ū	0.56	U	0.59	U	0.61	Ū	0.65	Ü	0.48	Ü	0.60	U	0.58	U	0.60 L	0.50	Ü	5.0	-
1-Dichloroethane	570	1000	10	0.59	Ü	0.64	Ū	0.56	Ū	0.59	U	0.61	Ū	0.65	Ü	0.48	Ü	0.60	Ü	0.58	Ü	0.60 L	0.50	U	5.0	Г
.1-Dichloroethene	8	150	10	0.59	ŭ	0.64	U	0.56	Ū	0.59	Ū	0.61	Ū	0.65	Ü	0.48	Ü	0.60	Ü	0.58	Ū	0.60	0.50	U	5.0	
.2-Dichloroethane	6	24	1	0.59	Ü	0.64	- U	0.56	ŭ	0.59	U	0.61	Ü	0.65	Ü	0.48	Ū	0.60	Ü	0.58	Ū	0.60 L	0.50	U	5.0	1
.2-Dichloropropane	10	43	NS	0.59	Ü	0.64	U	0.56	ŭ	0.59	U	0.61	Ü	0.65	Ū	0.48	Ū	0.60	Ü	0.58	Ū	0.60		u	5.0	_
P-Butanone	1000	1000	50	2.9	Ü	3.2	Ü	2.8	Ü	3.0	u	3.1	U	3.2	Ü	2.4	- Ŭ	3.0	- ŭ 	2.9	Ü	3.0 L	2.5	l ŭ	25	
-Chloroethylvinylether	NS	NS	NS	0.59	- Ü	0.64	~ ŭ	0.56	Ü	0.59	Ū	0.61	Ü	0.65	ŭ	0.48	ŭ	0.60	ŭ	0.58	ŭ	0.60 L	0.50	U	5.0	-
2-Hexanone	NS NS	NS NS	NS	2.3	Ü	2.6	-	2.2	Ü	2.4	- Ü	2.5	- U	2.6	- U	1.9	- ŭ	2.4	ŭ l	2.3	- ŭ -	2.4		l ŭ	20	\vdash
1-Methyl-2-Pentanone	1000	1000	50	2.3	Ü	2.6	Ü	2.2	U	2.4	Ü	2.5	Ü	2.6	- Ü -	1.9	ü	2.4	Ü	2.3	- ii -	2.4		1 0	20	-
	1000	1000	100	2.9	-0	3.2	- 0 -	2.8	Ŭ.	3.0	U	3.1	U	3.2	- ü -	2.4	- U	3.0	U	2.9	U	3.0		+ 5	25	-
Acetone Acrolein	NS NS	NS	NS NS	2.9	- - - - -	3.2	- U	2.8	U	3.0	U	3.1	Ü	3.2	Ü	2.4	Ü	3.0	U	2.9	Ü	3.0		1 0	25	╁╌
	1 1	5	NS I	0.59	U	0.64	U	0.56	Ü	0.59	0	0.61	Ü	0.65	ü	0.48	- U	0.60	ü	0.58	Ü	0.60	-	1 0	5.0	-
Acrylonitrile	+	13	+-;-	0.59	Ü	0.13	 U	0.36	Ü	0.12	_ U _	0.12	U	0.13	-	0.096	_ U	0.00	- ; -	0.38	- ü	0.12		1-5	1.0	╁
Benzene	111	46	 	0.12	U	0.13	- U	0.11	u	0.12	- u	0.12	U	0.13	-	0.036	- U	0.60	ü	0.12	- 0	0.60	 	U U	5.0	┼-
Bromodichloromethane	+		1		- U -	0.64	- ü	0.56	U	0.59	U	0.61	- -	0.65	- ü -	0.48	- U	0.60	- ö	0.58	Ü	0.60	0.00	+ + + + + + + + + + + + + + + + + + + +	5.0	╁
Bromoform	86 79	1000	 	0.59	- 0	0.64	-0	0.56	- U	0.59	U	0.61	U	0.65	- U	0.48	- U	0.60	Ü	0.58	U	0.60	4.44	1 0	5.0	┡
Bromomethane						0.64				0.59			U	0.65	1)	0.48	- U	0.60	11	0.58	U					-
Carbon Disulfide	NS 2	NS NS	NS	0.59	U	0.64	<u>U</u>	0.56	U		u	0.61	Ü			0.48	U		- 11	0.58		0.00	0.00		50	_
Carbon Tetrachloride		4	 	0.59	U_		<u> U</u>	0.56		0.59		0.61		0.65	U			0.60			U	0.60	0.50		5.0	+
Chlorobenzene	37	680	1 1	0.59	U	0.84	U	0.56	υ	0.59	U.	0.61	U	0.65	<u>u</u>	0.48	U	0.60	<u></u>	0.58	U	0.60			5.0	↓_
Chloroethane	NS	NS_	NS	0.59	U	0.64	U	0.56	U	0.59	<u>U</u>	0.61	U	0.65	U	0.48	U	0.60	U	0.58	U	0.60	0.00		5.0	↓_
Chloroform	19	28	1 1	0.59	U	0.64	U	0.56	U	0.59	- 0	0.61	U	0.65	U	0.48	U	0.60	U	0.58	U	0.60	0.00	-	50	1
Chloromethane	520	1000	10	0.59	U	0.64	U	0.56	U	0.59	U	0.61	U	0.65	U	0.48	U	0.60	U	0.58	U	0.60			50	╄
cis-1,2-Dichloroethene	79	1000	1 1	0.59	U	0.64	U	0.56	U	0.59	U	0.61	U	0.65	<u>u</u>	0.48	Ų	0.60	U	0.58	U	0.60	0.50		5.0	╄
cis-1,3-Dichloropropene	NS NS	NS	NS	0.59	U	0.64	U	0.56	U	0.59	U	0.61	U	0.65	U	0.48	U	0.60	U	0.58	U	0.60	V.V.		5.0	1
Dibromochloromethane	110	1000	1 1	0.59	U	0.64	U	0.56	U	0.59	U	0.61	U	0.65	U	0.48	U	0.60	<u> </u>	0.58	U	0.60	0.50		5.0	╄
Ethylbenzene	1000	1000	100	0.12	U	0.13	U	0.11	U	0.12	U	0.12	J :	0.13	U	0.096	U	0.12	<u> </u>	0.12	U	0.12			1.0	╄
M&P-Xylenes	410	1000	67	0.23	U	0.26	U	0.22	U	0.24	U	0.25	U	0.26	U	0.19	U	0.24	U	0.23	U	0.24			2.0	1
Methylene Chloride	49	210	1 1	0.59	0.14J	0.64	0.16J	0.56	0.14	0.59	U	0.61	U	0.65	U	0.48	U	0.60	U	0.58	U		0.50		5.0	1
O-Xylene	410	1000	67	0.12	U	0.13	U	0.11	U	0.12	U	0.12	U	0.13	U	0.096	υ	0.12	U_	0.12	U	0.12	9.10		1.0	
Styrene	23	97	100	0.59	U	0.64	U	0.56	U	0.59	U	0.61	U	0.65	U	0.48	U	0.60	Ü	0.58	U	0.601	0.00		5.0	
Tetrachloroethene	4	6	11	0.59	U	0.64	U	0.56	0.32J	0.59	0.22J	0.61	0.14J	0.65	Ü	0.48	U	0.60	U	0.58	0.71		0.50	U	5.0	Γ
Toluene	1000	1000	500	0.12	U	0.13	U	0.11	U	0.12	U	0.12	U	0.13	U	0.096	0.16	0.12	U	0.12	U		0.10	U	10	Γ
trans-1,2-Dichloroethene	1000	1000	50	0.59	U	0.64	U	0.56	U	0.59	U	0.61	U	0.65	Ų	0.48	U	0.60	Ū	0.58	U	0.60	0.50	U	50	I
trans-1,3-Dichloropropene	4	5	1	0.59	U	0.64	U	0.56	U	0.59	Ü	0.61	U	0.65	Ú	0.48	U	0.60	Ü	0.58	U	0.60	0.50	U	5.0	T
Trichloroethene	23	54	1	0.59	U	0.64	0.15J	0.56	3.0	0.59	1.1	0.61	0.37J	0.65	0.14J	0.48	8.2	0.60	0.93	0.58	19	0.60	6 0.50) U	5.0	T
Chloride Chloride	2	7	10	0.59	U	0.64	U	0.56	U	0.59	U	0.61	U.	0.65	U	0.48	U	0.60	U	0.58	U	0.60	0.50	Ū	5.0	1
ile:	NS	NS	NS	1	0	1	0		0		0	1	0	1	0	1	0		0	1	0	Γ	2	1 0	7	T
TOTAL VOC (TICs+VOCs)	T	1.000			0.14	1	0.31	T	3.46	T	1.32	7	0.51		0.14	1	8.36		0.93		19.71		.6	0.15	+	+

Table 1 Soil Sample Analytical Results Helion Industries, Inc.

Sample ID:	NJDEP:	Soil Cleanup	Criteria	18(2.5		18	_	18		18		18	_	11B(4		111		111		11		111		TB07	2704	FB072	2704
Sample Depth:		(mg/kg)		(2.5-		(0.5-		(0.5		(0.5-		(0.5-		(4.5		(0.5-		(0.5-		(0.5		(0.5-		1			
Veritech ID:		Non-	Impact to	AC1362	26-010	AC136	26-011	AC136	26-012	AC136	26-013	AC136	26-014	AC136	26-015	AC1363	26-016	AC136	26-017	AC136	26-018	AC136	26-019	AC136	26-021	AC1362	
Sample Date:	Residential	Residential	Ground-	7/26/	2004	7/26/	2004	7/26	2004	7/26/	2004_	7/26/	2004	7/26/	2004	7/26/	2004	7/26/	2004	7/26/	2004	7/26/	2004	7/26/	2004	מו בור	2004
Units:	li	neside illa	water	mg/	/kg	mg	/kg	mg	/kg	mg	/kg	mg	/kg	mg	/kg	mg	/kg	l mg	/kg	mg	/kg	mg	/kg	mg	/kg	ug/	<u>/\:</u>
BASE NEUTRAL & ACID EXT	TDAMTABI E	COMPOUR	ine																								
Acenaphthene	3.400	10.000	100	0.39	11	0.40	Ü	0.37	11	0.39	U	0.40	U											1		11 1	Ū
	NS	NS	NS	0.39	-11	0.40	บ		0.056J	0.39	- Ü- -	0.40	Ü													11	Ü
Acenaphthylene Anthracene	10,000	10,000	100	0.39		0.40	-		0.0363	0.39	Ü	0.40	Ü													11	Ü
Benzolalanthracene	0.9	4	500	0.39	Ü	0.40	U	0.37	0.24J	0.39	- ŭ	0.40	Ü													11	Ü
Benzolajpyrene	0.66	0.66	100	0.39	Ū	0.40	Ū	0.37	0.24J	0.39	Ü	0.40	Ü								_					11	Ü
Benzo(b)Fluoranthene	0.9	4	50	0.39	Ū	0.40	Ū	0.37	0.33J	0.39	Ū	0.40	Ü									-		_		11	Ü
Benzo(g,h,l)perylene	NS	NS	NS	0.39	U	0.40	U	0.37	0.18J	0.39	U	0.40	U		_			-				_				11	Ü
Benzo(k)Fluoranthene	0.9	4	500	0.39	U	0.40	U	0.37	0.097J	0.39	U	0.40	U	_		_			_	-				_		11	U
Chrysene	9	40	500	0.39	U	0.40	U	0.37	0.25J	0.39	U	0.40	υ	_		_			_	_	_			_		11	U
Dibenzo(a,h)anthracene	0.66	0.66	100	0.39	υ	0.40	U	0.37	0.049J	0.39	U	0.40	U	_	-		_	_	_		_				_	11	U
Fluoranthena	2,300	10,000	100	0.39	U	0.40	U	0.37	0.36J	0.39	U	0.40	U	_	_	=		T			_			_		11	U
Fluorene	2,300	10,000	100	0.39	U	0.40	U	0.37	U	0.39	U	0.40	U	_		_	_	- T	_	_	_	-	-	-		11	U
indeno[1,2,3-cd]pyrene	0.9	4	500	0.39	U	0.40	U	0.37	0.14J	0.39	U_	0.40	U	_	-	-	_			_	_	_	_			11	U
Naphthalene	230	4,200	100	0.39	υ	0.40	υ	0.37	U	0.39	U	0.40	U				_	—	_		_			_		11	U
Phenanthrene	NS	NS	NS	0.39	J	0.40	U	0.37	0.16J	0.39	U	0.40	U			_	_	T	_	_	_	_	-		-	11	U
Pyrene	1,700	10,000	100	0.39	U	0.40	U	0.37	0.33J	0.39	U	0.40	U					<u> </u>		T -	_	L -			-	11	U
TICs	NS	NS	NS		0		0		0		0	<u> </u>	0_	T =				T	_	_	T -		-	I –] -	T	0
TOTAL BNs (TICs+BNs)	<u> </u>	10,000		L <u>-</u>	Ü	<u> </u>	U		2.477		U	-	U						_					_	~	T 1	U
METALS																				-							
Antimony	14	340	NS	2.4	U	2.4	U	2.2	2.3	2.4	U	2.4	U	T -	Ι –	Τ =		T =		Τ_	1 =	T	1 =	Τ=	-	20	רטו
Copper	600	600	NS	5.9	14	6	8.3	5.6	73	5.9	7.0	6.0	170	-	_	 	-	1	 	Τ_	 	 _		 	T =	50	1-6-1
				•																						<u> </u>	

NS: Not Specified

U: Not detected at the listed MDL

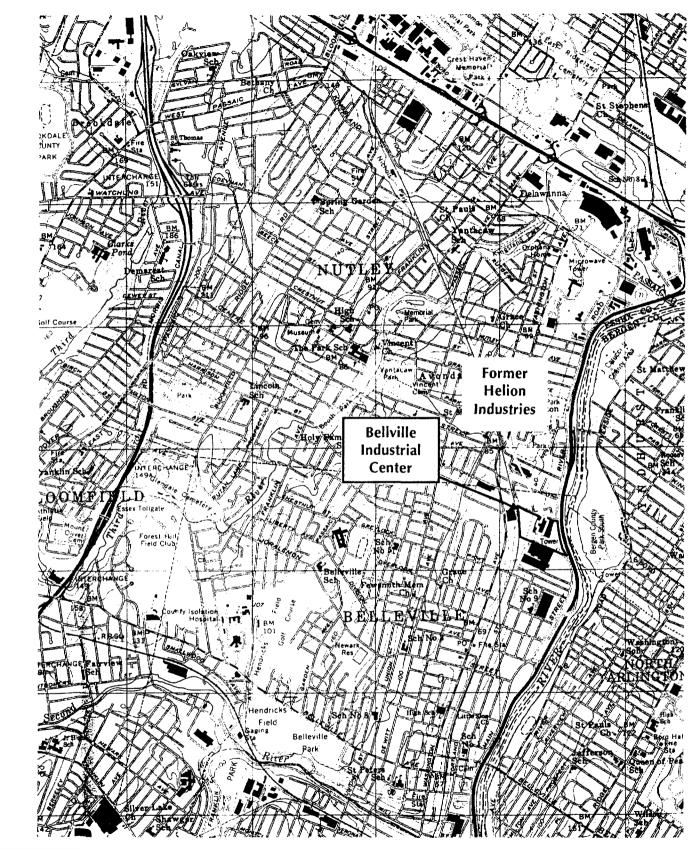
Not analyzed

J: Estimated concentration below the MDL.

B: Detected in the blank.

Bold and outlined results indicate an exceedance of criteria

DC000190



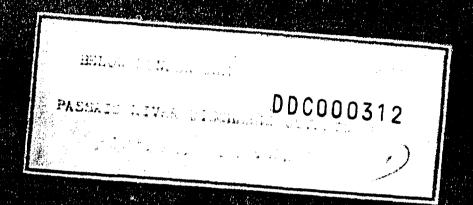


• ELMWOOD PARK, NJ • ATLANTIC CITY, NJ • NEW YORK, NY • MIAMI, FL • NEW HAVEN, CT • DOYLESTOWN, PA • PHILADELPHIA, PA • LAS VEGAS, NV• TRENTON, NJ

SITE LOCATION MAP DDCUO1 FORMER HELION INDUSTRIES, INC. BELLEVILLE INDUSTRIAL CENTER BELLEVILLE, NEW JERSEY

Source: US Geologic Survey, Orange, NJ Quadrangle

PROJECT SCALE DATE 1827401 1" = 2000' 11/10/03 FIGURE 1

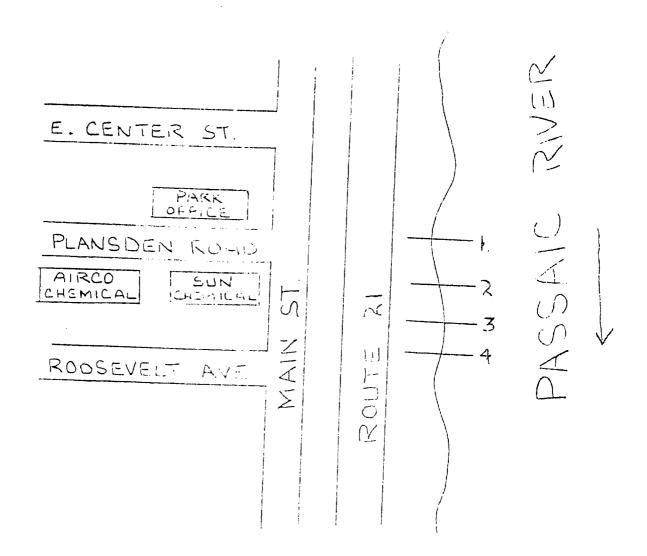


BELLEVILLE

Federal Industrial Park

This park area contains Sun Chemical Corp.& Airco Chemical Plastic Company. There are 4 pipes coming from this industrial park, they are:

- 1. 24" storm sewer outlet.
- 2. 24" storm sewer outlet.
- 3. 24" storm sower outlet.
- 4. 30" pipe used for cooling water only.



REPORT ON THE

QUALITY OF THE INTERSTATE WATERS

OF THE

LOWER PASSAIC RIVER AND UPPER AND LOWER BAYS
OF NEW YORK HARBOR

FISHERIES BRANCH MARINE AND EARTH SCIENCES LINGING

JUL 1 9 1973

N.O.A.A. U. S. Dept. of Commerce

U. S. DEPARTMENT OF THE INTERIOR

 \mathcal{U} . \mathcal{I} federal water pollution control administration.

NORTHEAST REGION.

HUDSON DELAWARE BASINS OFFICE

Edison, New Jersey

November 1969

70 4047

DDC000314

TABLE 6 (Contid.)

Map Ident. No.	Source Municipality	River 2/ Mile	Pipe Size	Est. Flow mgd	Temp. °C	BOD mg/1	Total Suspended Solids mg/l	рн	Total Coliform Org./100 ml	Fecal Coliform Org./100 ml	Remarks
34	Pettit Marine Paint (T) Belleville	9.8	24 ** 24 ** 24 **	0.06 0.0կ 0.03 0.03	19.6 19.3 19.0 19.0	5.4 3.8 4.8 3.4	28 26 2կ 26	7.6 7.8 7.6 7.4	83x103 73x10 <u>1</u> 20x10 <u>1</u> 19x10	3 11x103 13x103 13x102 90x10	Colored discharge
35	Storm Sewer Belleville	9.8	16*	0.04	22.0	ni1	396	7.0	17x10 ³	20×10 ²	
36	Storm Sewer Belleville	9.9	2կ "	0.06	22.5	nil	784	7.0	56x10 ³	60x10 ²	
37	Storm Sewer Belleville	9.9	36"	Large	19.0	5.2	60	7.2	62x10 ³	55x10 ²	
38	Walter Kidd≎ (T) Belleville	10.0	12" 12" 12"	0.15 0.15 0.01	26.0 26.0 26.0	nil 12 15.2	113h 113h	7.2° 7.2 7.2	31x10 ^{li} 22x10 ^{li} 16x10 ^{li}	57=10 ² 55=10 ² 14=10 ³	
39	Walter Kidde (T) Belleville	10.1	L8 *	Large	29.0	11.4	1,64	7.0	55×10 ⁴ .	31x10 ³	
ŀО	Storm Sewer from Belleville Ind. Center Belleville	10.3	36"	0.16	23.0	nil	270	-	20x10 ^{li}	37x10 ²	Oil on surface
Ħ	Storm Semer Mutley	11.1	24 -	0.26	17.0	nil	16	8.0	71x10 ³	23x10 ¹	
L 2	Storm Sewer (T) Clifton	12.9	48 *	0.97	27.0	2.2	26	7.2	35x10 ¹	lı.	
43	Storm Sewer Passaic	14.1	36"	0.25	18.0	2.2	8	7.4	13x10 ³	2hx10 ²	
بلزا	PVSC Combined Overflow Passaic	14.4	16-	0.31	25.0	5.4	72	7.0	95×10 ^l	23x10 ^{li}	
L 5	Uniroyal, Inc. Passaic	1կ.6	8* 8* 8* 24*	0.01 0.01 0.01 0.04 7.82	69.0 21.0 21.5 29.5 24.0	10.կ nil nil nil 3.l	192 280 186 14 88	10.5 7.4 7.0 7.5 7.1	10 20×10 ¹ 20×10 ³ 52×10 ³ 47×10 ²	կ ն 32×10 ¹ 12 28×10 ¹	Colored discharge
46	Storm Sewer Wallington	14.9	6*	-	-	-	-	-	-	-	
47	Parra Print Shop Passaic	15.1	ħ.	0.01	41.0	10.2	358	10.4	10	lı.	
48	J. L. Prescott Passaic	15.1	Several pipes	-	-	-	-	-	-	-	White color
1.9	Ind. Disc. to Dundes Canal (T) Passaic	14.4/0.25	Undetermined size	-	-	-	-	-	-	•	Pipes flowing sample could not be taken
50	Storm Sewer Passaic	15.3	2կ "	-	-	-	-	-	•	-	ż
51	Storm Sower Oarfield	15.9	Undetermined size	-	-	•	-	-	•	-	•
52	Storm Sewer Passaic	16.0	Undetermined size	-	-	_		-	-	-	

DDC000315

STREAM CONTAMINATION REPORT

Dis	strict No. 6 Date: 4/20/77 Time:
	ther: Clear
Com	npany Name: DELLEVILLE INDUSTRIAL CENTER
Ađđ	dress: 681 Main St., belleville, N.J.
Nam	ne & Title of Person Contacted: Mr. Abram Ellis, Pres.
Nat	ure of Business: Industrial complex
 No.	of Outlets: (1) One to Passaic River
	hod of Waste Disposal: Sanitary Sewer X Combined Sewer
	Storm Sewer, River or Ditch
i£ N	PDES Permit is Required: Draft Permit:Final Permit:
Vic	plation: Waste water into storm sewer to Passaic River
1.	Color_
1.	ColorOdor
2.	ColorOdor
2. 3.	ColorOdor
2. 3. 4.	Color
2. 3. 4.	Color Odor Turbidity Estimated Flow (G.P.M.)
1. 2. 3. 4. 5.	Color Odor Turbidity Estimated Flow (G.P.M.) Collection on Banks
2. 3. 4. 5.	ColorOdor
2. 3. 4. 5.	ColorOdor

(Complete narrative on reverse side)

DDC000082

While making a routine inspection I noticed large puddles of water coming down the driveway from the Industrial Center angoing into the catch basin on Main St., Belleville, N.J., My investigation revealed that the storm sewer was blocked up and the water was coming out of a catch basin in front of aldg. Il of the Industrial Complex, this water had a white cast to it. I contacted Mr. Bernie Slater, Plant Engineer and he informed me that there must be a blockage into the storm sewer and that he would have this un-blocked as soon as possible. I questioned him about the discoloration in the water, (white) and he informed me that there is a possibility that Bldg. 11, occupied by the Helion Industries Inc. was discharging their tank washing into a catch basin in the plant that empties out into the storm sewer that leads out into the Passaic River. He told me that he would have this catch basin in the plant connected to the nearby sanitary sewer. he promised me that this will be done by Tues. 4/26/77. That afternoon the blockage of debris was removed from the catch basin and there was no overflow onto the street.

I will continue to see $i\ell$ this discharge is running only clean water.

Don to tarco

Miver Inspector

DDC000083

PASSAIC VALLEY SEWERAGE COMMISSIONERS DEPARTMENT OF SANITATION CONTROL

LABORATORY REPORT

HELMON

STANDARD METHODS OF ANALYSIS

INDUSTRIES

RESULTS EXPRESSED IN MILLIGRAMS PER LITER (mg/l)

DATE OF SAMPLE4/21/77	TI	ME $-1:45$ p.m. SAMPLE No. $-D=2$	68
SAMPLE OF _Belleville_Indust	rial Center	681 Main St. Belleville. C	verflow
of Storm Sewer Catc Sewer on Main St. F	h Basin int	o Storm TAKEN BY D.DeMarco/L	Cuccinell
TOTAL SOLIDS		TURBIDITY (J. T. U.)	215 mjf
TOTAL VOLATILE		pH	8 1 ob
TOTAL MINERAL	•	FLAMMABLE	
SUSPENDED SOLIDS	123 im	EXPLOSIMETER (PERCENT)	
SUSPENDED VOLATILE	47 jm	ORTHOPHOSPHATE (DISSOLVED)	
SUSPENDED MINERAL	76 jm	TOTAL PHOSPHATES	
DISSOLVED SOLIDS		TEMPERATURE *F	70
SETTLEABLE SOLIDS (ml/L)		COLIFORMS PER ml	
TOTAL NITROGEN	•	FECAL COLIFORMS PER 100 ml	
AMMONIA NITROGEN		THRESHOLD ODOR NUMBER	
GANIC NITROGEN		GREASE AND OIL	
NITRATE NITROGEN		TOTAL ORGANIC CARBON	110 eb
NITRITE NITROGEN			
CHLORIDES AS CHLORINE	10 mif		
ALKALINITY AS CaCO:	,		
CHEMICAL OXYGEN DEMAND	341 mif		
BIOCHEMICAL OXYGEN DEMAND			
CHLORINE DEMAND			
CHLORINE RESIDUAL			

DESCRIPTION:

Cloudy Gray Turbid Liquid Gray Suspended Matter Gray Sediment No Odor

DDC000084

REMARKS:

ALEXANDER S. GOLDBERG DIRECTOR OF SANITATION CONTROL

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CARMINE T. PERRAPATO CHAIRMAN

THOMAS J. CIFELLI VICE CHAIRMAN

DBERT J. DAVENPORT N W. GORDON .EPH M. KEEGAN _ARLES A. LAGOS COMMISSIONERS PASSAIC VALLEY SEWERAGE COMMISSIONERS

600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800

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BEYMOUR A. LUBETKIN

CHARLES C. CARELLA

MRS. CHARLES T. SCHAEDEL

May 20, 1977

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JUN - 2 1977.

MITTER SAUTATION

COMMISSION

Passaic Valley Sewerage Commissioners 600 Wilson Avenue Newark, New Jersey

Re: Bi-Monthly Report

Harch and April 1977

Gentlemen:

. The following is my report which covers the months of March and April 1977, and consists of three parts:

Part I:	Special Reports		
	#1 - User Charges	Page	1
	#2 - Pretreatment of		
	Industrial Waste	Page	7
	#3 - The Passaic River		
	March-April 1977	Page	19
Part II:	Pollution violations that		
	were eliminated during the		
•	month, together with a report	•	
	on how elimination occurred	Page	26
Part III:	Pollution violations that		
	were still discharging at the		
	end of the month into the		
	streams under the jurisdiction		
	of the PVSC, together with a		
•	report on what is being done		
·	to abate such pollution	Page	36
	•		

DDC000078

Violation - Belleville Industrial Park (Helion- Industries), 681 Main Street, Belleville

April 20-30, 1977

(D. DeMarco)

On April 20, 1977, while making routine checks in his district, Inspector DeMarco observed a white colored liquid flowing down a driveway at the Belleville Industrial Park, and into a storm sewer catch basin on Main Street, thence to the Passaic River. Checking further, he found that the liquid was overflowing from a manhole in front of Helion Industries.

Inspector DeMarco then met with Mr. Bernard Slater, Plant Engineer for the Industrial Park, and was informed that the manhole was over a storm sewer which was blocked. Mr. Slater was told that this was an illegal discharge since this material should not have ever been discharged into a storm sewer. Further investigation revealed that the internal building sewer line was connected to the storm sewer. Mr. Slater was directed to repipe the building sewer line to the sanitary sewer and he agreed to do this.

Inspector DeMarco then met with Mr. Vincent Esposito, Plant Manager of Helion Industries, and when he was informed of the situation Mr. Esposito stated he would not use the sewer until it was reconnected to the sanitary sewer. Although subsequent investigations showed that Helion was not polluting, this violation will be carried until the sewer connection is made. In addition, PVSC is surveying the complex to determine if other illegal connections to the storm sewer from other plants exist.

Violation - Town of Belleville, Second River Joint Meeting (D. DeMarco)

July 15, 1976 - April 30, 1977 (M. Cordsaso)

See the PVSC 1976 Annual Report, page 181. PVSC's Mr. D'Ascensio wrote to Mr. Decher, Secretary of the Second River Joint Meeting on January 14, and requested a status report. Mr. Decher replied (Jan. 17, 1977) that the break in the sanitary sewer line crossing the bridge over Second River was in the sewer belonging to Belleville, and therefore was the responsibility of the Town of Belleville. Mr. D'Ascensio then wrote to Mr. Soldo on January 19, and enclosed a copy of Mr. Decher's letter and requested a status report. Mr. Soldo replied on January 25, that although it had not been firmly established that the responsibility was Belleville's, that as soon as the weather permitted, he intended to eliminate the existing Belleville line in the bridge and enter the Second River Joint Meeting trunk line at a point upstream.

Nothing further was done and on April 29 Inspector DeMarco spoke to Mr. Soldo and requested a status report. Mr. Soldo informed him that Belleville hoped to start work the week of May 9 in order to relocate the 8-inch sewer.

CARMINE T. PERRAPATO CHAIRMAN

THOMAS J. CIFELLI VICE CHAIRMAN

ROBERT J. DAVENPORT ROSERT J. DAVENIC REN W. GORDON SEPH M. KEEGAN RLES A. LAGOS 415SIONERS

PASE & VALLEY SEWERAGE COMMISSIO.

600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800

BEYMOUR A. LUBETKIN CHIEF ENGINEER

CHARLES C. CARELLA CHIEF COUNSEL

MRS. CHARLES T. SCHAEDEL GLERK-TREASURER

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July 27, 1977

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INTERSTATE BANITATION **BEWHISSION**

Passaic Valley Sewerage Commissioners 600 Wilson Avenue 07105 Newark, New Jersey

Bi-Monthly Report May and June 1977

Gentlemen:

The following is my report which covers the months of May and June 1977, and consists of three parts:

Part I: Special Reports

> #1 - The Passaic River May-June 1977 Page 1

> #2 - A Potpourri of Problems Page 8

Part II: Pollution violations that were eliminated during the month, together with a report on how elimination occurred Page 14

Part III: Pollution violations that were still discharging at the end of the month into the streams under the jurisdiction of the PVSC, together with a report on what is being done to

> abate such pollution Page 30

> > DDC000080

Violation and Elimination - Allied Textile Printers Corp., 1 Van Houten Street, Paterson, New Jersey May 24 - May 31, 1977 (T. Costello)

While making a routine inspection of the West Broadway over-flow outlet at 11:30 A.M. on May 25, 1977, Inspector Costello observed an oily film in the Passaic River. He traced it upstream to Allied Textile, and met with Mr. Harold Mueller, Plant Engineer. Mr. Mueller explained that the plant sewage pumps failed electrically at 9:00 P.M. on May 24, and the wet well overflowed allowing sewage to run down the bank and into the river. When Mr. Mueller was contacted by plant personnel, he proceeded to the plant where he corrected the failure by 11:00 P.M., stopping the overflow. Although the violation was eliminated the oily film was visible along the bank until May 31, 1977.

Violation and Elimination - Belleville Industrial Park, (Helion Industries), 681 Main Street, Belleville, New Jersey April 20 - June 10, 1977 (D. DeMarco)

On April 20, 1977, while making routine checks in his district, Inspector DeMarco observed a white colored liquid flowing down a driveway at the Belleville Industrial Park, and into a storm sewer catch basin on Main Street, thence to the Passaic River. Checking further, he found that the liquid was overflowing from a manhole in front of Helion Industries.

Inspector DeMarco then met with Mr. Bernard Slater, Plant Engineer for the Industrial Park, and was informed that the manhole was over a storm sewer which was blocked. Mr. Slater was told that this was an illegal discharge since this material should not have ever been discharged into a storm sewer. Further investigation revealed that the internal building sewer line was connected to the storm sewer. Mr. Slater was directed to repipe the building sewer line to the sanitary sewer and he agreed to do this.

Inspector DeMarco then met with Mr. Vincent Esposito, Plant Manager of Helion Industries, and when he was informed of the situation Mr. Esposito stated he would not use the sewer until it was reconnected to the sanitary sewer. Although subsequent investigations showed that Helion was not polluting, this violation was carried until the sewer connection was made.

The illegal connection was confirmed on May 3, by putting dye into the floor drain and seeing it appear in the storm drain. Although Mr. Slater had promised to make the connection to the sanitary sewer in April, Mr. Lubetkin was forced to write to Mr. Ellis of the Belleville Industrial Center on May 19 and direct him to make the modifications promised. The material was delivered in May, and a sump with a pump was installed to pump the industrial waste to the sanitary sewer via 20 feet of 15" pipe. The storm sewer connection was sealed as of June 10, 1977.

STREAM CONTAMINATION REPORT

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Nam	ne & Title of Person	Contacte	d: 'x. wor	nie Slater, P	laut Phuincer	
			Tel	ephone: . 751-	6330	
Nat	ure of Business:	Indust	rini deselen			
No.	of Outlets:					_
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DDC000085

Spoke to Mr. Slater, Plant Engineer, and he informed me that he expects to have a plumber in this week, Friday 4/29/77 to route out the storm sewer line to make sure that it doesn't block up. Also he told me that he would have the catch basin at the Helion Industries Inc., Bldg. 11, which occasionally, once or twice a week, discharge their waste water from their turbling machine into the catch basin that empties out into the storm sewer disconnected, and place the pipe to the sanitary sower which is a short distance away. This he expects to have completed by the end of next week. I also told him to check if the complex has a permit for constant discharge from this complex into the storm sewer which empties out into the Passaic River at Main St.

Will sample the storm sower next week, have to make arrangements to lift up the heavy catch basin in the driveway of this complex.

Dom De Marco River Inspector

DDC000086

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DDC000087

BELLEVILLE INDUSTRIAL CENTER

(HELION INC.)

On Tuesday 5/6/77, at approx. 10:30 A.M., myself and Ass't. Supt. Cuccinello met with Mr. Eernie Slater, Plant Engineer of the above named complex, and we proceeded to dye test the floor drain in Bldg. 11 of the Helion Industries Inc. This drain into which this company empties out its wash water, from a holding tank, goes into a catch basin and empties out into a 6 inch storm sewer line that comes out to the main storm sewer line in the driveway and this empties out into the Passaic River.

Mr. Slater said that he would have to get a plumbing contractor in this coming week, and have this drain rerouted to the sanitary sewer.

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Tom De Marco River Inspector

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DDC000088



May 11, 1977

Mr. D'Ascensio Passaic Valley Sewerage Commissioners 600 Wilson Avenue Newark, New Jersey 07105

800-471

Dear Mr. D'Ascensio:

At the request of Inspector DeMarco of your office, I am writing to inform you of the sewerage situation in our plant located in the Belleville Industrial Center complex at 681 Main Street, Belleville, New Jersey.

We leased and occupied the above property with the understanding and assurance from the landlord that the sewer in the building we occupied was a sanitary sewer as this was an important requirement in our search for a building. We had no reason to suspect that the sewer was not a sanitary sewer as one would not indeed expect to find a storm sewer running through the center of a building.

A recent sewerage problem prompted a visit to the complex by Inspector DeMarco and during the course of his investigation, he informed our plant manager, Vincent Esposito, that the sewer running through our building was a storm sewer. Helion manufactures photographic chemicals in this building, and everything we manufacture is packaged and shipped. There are notresidues or by-products from our manufacturing and indeed it is a very clean operationass could very readily be verified by Inspector DeMarco. The only waste emanyating from our building are the rinse waters from the rinsing down of our mix tanks with deionized water. The rinse water used is usually less than 50 gallons and contains very minute quantities of materials as little or no product is left in the tanks after the packaging operation. I would estimate that the major impurities contained in the rinse water are in quantities of parts per million.

In any case we have discussed the sewerage matter with the agent for the landlord, Bernard Slater. Mr. Slater agreed that we were misrepresented to by the landlord. We have devised a plan where we will collect all rinse waters and divert them to the sanitary

HELION INDUSTRIES INCORPORATED - 681 MAIN STREET - BELLEVILLE, NEW JERSEY 07109 - [201] 759 0200

DDC000089

sewerage system. Mr. Slater agrees that the cost of this work should be borne by the landlord and has advised me on May 6th that he would take the matter up with the management of the Belleville Industrial Center. If the Belleville management agrees I estimate the work could be completed within two to three weeks.

In the meantime I have given instructions to our plant manager to use the absolute minimum amount of water necessary in all our rinse downs. I feel confident that within several weeks any discharge into the storm sewer will be completely eliminated.

I am leaving on a trip from May 12th through the 19th and will be available thereafter to answer any additional questions that may come up.

Sincerely yours,

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HELLON INDUSTRIES INC.

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Richard Huber President

RH/dd

DDC000090

GARMINE T. PERRAPATO

THOMAS J. CIPELLI

ROBERT J. DAVENPORT 'EN W. GORDON OBEPH M., KEEGAN CHARLES A. LAGOS COMMISSIONEMS PASSAIC VALLEY SEWERAGE COMMISSIONERS

600 WILSON AVENUE NEWARK, N.J. 07105 (201) 344-1800

4

BEYMOUR A. LUBETKIN

CHARLES C. CARELLA

MRS. CHARLES T. SCHAEDEL

009-502

May 19, 1977

Mr. Abe Ellis
Belleville Industrial Center
681 Main Street
Belleville, New Jersey 07109

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The second second

Dear Mr. Ellis:

This will confirm Passaic Valley Sewerage Commissioners' inspector's report to you, that the discharge from the Belleville Industrial Center, taken on April 20, 1977, which entered into the storm sewer catch basin and, then, into the Passaic River was polluting. The investigation revealed that the polluting material eminated from Helion Industries, Inc., within your complex. This is to inform you that this material must be diverted from the storm sewer to halt the pollution. I am also enclosing herewith, a copy of a letter sent to Helion Industrie: together with a copy of a letter of theirs, dated May 11, 1977, which is self-explanatory. The PVSC does not want to get involved with an internal problem concerning the cost of relocating such sewer. However, it is absolutely essential that the pollution be halted at once, and, as the owner of the property, you are hereby directed to make any modifications required to halt this pollution.

Very truly yours,

PASSAIC VALLEY SEWERAGE COMMISSIONERS

S. A. Lubetkin, Chief Engineer

SAL/ipg

CERTIFIED MAIL

cc: C. C. Carella, Esq. Helion Industries, Inc. Mr. F. D'Ascensio

3 3 5 May 1

DDC000091

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District No	6	Date:	5/20/77	Time:	11:00 A.M.
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:SERRY VASC

On 5/20/77 spoke to Mr. Bernie Slater, Plant Engineer of this Complex, and the informed me that he ordered a sump pump and pipe to beinstalled at the Helion Indus. Inc. Building #11. He expected to start work to aliminate the pollution this coming week.

Dinea S.

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Dom De Marco River Inspector

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DDC000093

STREAM CONTAMINATION REPORT L ELIMINATION

District N	0	ate:	5/10/77	Time:	2:00 P.M.
	Landing rolls				
	me: BELLEVIL				STRIES)
Address:	681 Main	St., Bel	leville, N.	J	:
Name & Tit	le of Person Co	ntacted:	Bernie Sl	ater, Plant Er	ngineer
			Tele	phone: 759	7-7100
Nature of	Business:	Industr	ial Complex		
·					
	lets:				
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(Complete r	narrative on re	verse sid	le)		-

DDC000094

On Friday 6/10/77 at 2:00 P.M. I visited the Complex and with-Bernie Slater, Plant Engineer, we inspected the storm sewer which was blocked off and cemented, and a 3/4 horse pump into this pit which will pump this wash water from Helion Co., approx. 20 feet to the sanitary sewer line from a 14 line. There is no sign-of-any discharge into the storm sewer other than roof drains.

This pollution can be eliminated. (sketch attached)

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Dom De Marco River Inspector

DDC000095

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